



UNDERWATER SYSTEMS INC.

**STANDARD
CONNECTORS**

**SEAMAX
CONNECTORS**

**DELTA
CONNECTORS**



CONTACT OUR TEAM



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com



UNDERWATER SYSTEMS INC.

GENERAL INFORMATION

**ST
SERIES**

**SUBSEA
SERIES**

MINIATURE

MICRO-MINI

SEALOC

**LOCKING
SLEEVES**

**WET
PLUGGABLE**

UXSL

**FIELD
INSTALLABLE**

**JUNCTION
BOXES**

PENETRATORS

**MAGNETIC
SWITCHES**



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GENERAL INFORMATION

INSTALLATION:

Since the contacts of female connectors are recessed, it is recommended that female connectors always be connected to the power side. "O-Ring seals of bulkhead connectors depend on the surface finish of the unit to which they are being mounted. A smooth flat surface is required for proper sealing. The threaded side of the bulkhead connectors must be installed so that this is only subject to low pressure. Proper care is essential when splicing wires, as the integrity of the system is at stake.

LUBRICATION:

To extend the life and increase the reliability of connectors, apply silicone grease to the entire surface of each male pin. Grease should also be applied at the entrance of each socket. Relubrication is recommended every three to five mating cycles. The use of General Electric Insulgrease 640 is recommended for lubrication.

MAINTENANCE:

As with any equipment, inspection should be performed regularly. Oxidation may be removed from male contacts by using no less than #800 wet/dry Emery paper cut in strips equal to or less than the width of the contact and rubbing lightly. Female sockets may be cleaned using a cotton swab and rubbing alcohol. A .22 caliber bore brush with nylon bristles only may be used to remove light oxidation.

IPCEA METHOD 5 COLOR CODING SCHEME:

WIRING CONTACT NO.

1
2
3
4
5
6
7
8

CONDUCTOR COLOR

BLACK
WHITE
RED
GREEN
ORANGE
BLUE
WHITE/BLACK STRIPE
RED/BLACK STRIPE

PRODUCTS FEATURE:

Many of the products in this catalog are capable of being mated in under water with electrical power deenergized. Precision interference fit between contacts and neoprene-neoprene interface ensures waterproof integrity when correctly installed and maintained. Bulkhead connectors are molded directly to the face of all threaded fittings to provide maximum strength.

PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I. consult with factory for higher ratings.

ELECTRICAL RATINGS		VOLTAGE	AMPERE
Micro Mini Connectors		110V	.5 AMP.
Miniature Connectors		110V	5 AMP.
SB Series		220V	15 AMP.
ST Series	E Contacts	220V	15 AMP.
	F Contacts	110V	7.5 AMP.
	H Contacts	440V	60 AMP.

OIL FILLED CONNECTORS:

Rubber molded oil filled connectors are designed to carry back pressure up to 1,500 P.S.I.

CONTACTS:

- All of the Self-purging connectors: ST, MO, MS, MC Series has beryllium copper male pins and heat treated sockets - All of the SubSea Series has gold plated brass pins and heat treated beryllium copper sockets.



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WARRANTIES AND RETURN POLICY

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WARRANTIES AND RETURN POLICY

IMPORTANT NOTICE:

The product information published in our catalogues and literature is not guaranteed. It is subject to change without notice. Occasionally, it may be necessary to modify the materials, finishes, or other components of the products. These changes in no way will reduce the performances or function for which the product is intended.

LIMITED WARRANTY

UNDERWATER SYSTEMS INC. (U.S.I.) products are warranted against mechanical, electrical, and physical defects for a period of one year from the date of shipment from the company. If they have been properly used, and are warranted to be merchantable and fit for the ordinary purposes for which such products are used. There are no express warranties or warranties of fitness for any particular purpose, or any implied warranties other than those made expressly herein, all such warranties being expressly disclaimed. The obligation of U.S.I. under this limited warranty, including the limited warranty of merchantability and fitness for the ordinary purposes for which the products are used, and all other warranties are limited to the furnishing of new parts free of charge in exchange for parts which have been proven defective and deems not to include any other costs such as the cost of removal of defective part, installation, labor or consequential damages of any kind, the exclusive remedy being to require such new parts to be furnished. U.S.I. assumes no responsibility for proper selection and installation of its products.

RETURN POLICY:

1. Prior return authorization must be obtained.
2. Returns must be accompanied with the following information:
 - A. Date of shipment
 - B. Customer purchase order number
 - C. Any relevant test data for failure description
3. Returns from countries outside the USA must be sent according to the following procedures. Failure to follow these instructions will terminate contractual agreement by UNDERWATER SYSTEMS INC.
 - A. Notify UNDERWATER SYSTEMS INC. as said above and include all necessary information with the shipment.
 - B. State that they are return (USA) goods
 - C. State the goods are defective - NO DECLARED VALUE -
 - D. Send returned parts only air parcel or pacel post.



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WET PLUGGABLE UNDERWATER CONNECTOR SERIES

PRODUCTS FEATURE:

This series is generally known as the work horse of the military and commercial diving industries. Rugged and reliable with a field proven history. The WPC series provides the user with 1,2,3,& 4 contact versions with male & female in-line and dummy connector configurations.

PRESSURE RATINGS:

The neoprene rubber body is directly molded to the cable and is provided with silver plated #10,#14,#16 AWG contacts and is rated to 20,000, PSI.

WET PLUGGABLE CONNECTORS

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WET PLUGGABLE CONNECTORS MARSH MARINE TYPE

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WET PLUGGABLE CONNECTORS BULKHEAD

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WET PLUGGABLE CONNECTORS BULKHEAD THREADED FOR LOCKING SLEEVE

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U.S.I WPC



	#1- 10 AVG	#1- 10 AVG #2- 14 AVG	#1- 10 AVG #2- 14 AVG #3- 14 AVG	#1- 14AVG #2- 16 AVG #3- 16 AVG #4- 16 AVG
 IN-LINE PLUG	WPC-1-MP DIMENSIONS INCH A .75 B .62 C .52 D .50 L 18.00	WPC-2-MP DIMENSIONS INCH A .75 B .62 C .52 D 1.19 L 18.00	WPC-3-MP DIMENSIONS INCH A .75 B .62 C .52 D 1.19 L 18.00	WPC-4-MP DIMENSIONS INCH A .75 B .62 C .52 D 1.19 L 18.00
 RIGHT ANGLE PLUG	WPC-1-MP-RA DIMENSIONS INCH A .75 B .62 C .50 D 1.25 E 2.37 L 18.00	WPC-2-MP-RA DIMENSIONS INCH A .75 B .62 C .50 D 1.25 E 2.37 L 18.00	WPC-3-MP-RA DIMENSIONS INCH A .75 B .62 C .50 D 1.25 E 2.37 L 18.00	WPC-4-MP-RA DIMENSIONS INCH A .75 B .62 C .50 D 1.25 E 2.37 L 18.00
 INVERSE IN-LINE PLUG	WPC-1-IP DIMENSIONS INCH A .75 B .62 C 1.08 D .50 L 18.00	WPC-2-IP DIMENSIONS INCH A .75 B .62 C 1.12 D 1.19 L 18.00	WPC-3-IP DIMENSIONS INCH A .75 B .62 C 1.12 D 1.19 L 18.00	WPC-4-IP DIMENSIONS INCH A .75 B .62 C 1.12 D 1.19 L 18.00
 INVERSE RIGHT ANGLE PLUG	WPC-1-IP-RA DIMENSIONS INCH A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00	WPC-2-IP-RA DIMENSIONS INCH A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00	WPC-3-IP-RA DIMENSIONS INCH A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00	WPC-4-IP-RA DIMENSIONS INCH A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00





U.S.I WPC



	#1- 10 AWG	#1- 10 AWG #2- 14 AWG	#1- 10 AWG #2- 14 AWG #3- 14 AWG	#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG
<p>IN-LINE RECEPTACLE</p>	<p>WPC-1-FS DIMENSIONS INCH</p> <p>A .75 B .62 C 1.08 D .50 L 18.00</p>	<p>WPC-2-FS DIMENSIONS INCH</p> <p>A .75 B .62 C 1.12 D 1.19 L 18.00</p>	<p>WPC-3-FS DIMENSIONS INCH</p> <p>A .75 B .62 C 1.12 D 1.19 L 18.00</p>	<p>WPC-4-FS DIMENSIONS INCH</p> <p>A .75 B .62 C 1.12 D 1.19 L 18.00</p>
<p>RIGHT ANGLE RECEPTACLE</p>	<p>WPC-1-FS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00</p>	<p>WPC-2-FS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00</p>	<p>WPC-3-FS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00</p>	<p>WPC-4-FS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C 1.08 D 1.25 E 2.37 L 18.00</p>
<p>INVERSE IN-LINE RECEPTACLE</p>	<p>WPC-1-MS DIMENSIONS INCH</p> <p>A .75 B .62 C .52 D .50 L 18.00</p>	<p>WPC-2-MS DIMENSIONS INCH</p> <p>A .75 B .62 C .52 D 1.19 L 18.00</p>	<p>WPC-3-MS DIMENSIONS INCH</p> <p>A .75 B .62 C .52 D 1.19 L 18.00</p>	<p>WPC-4-MS DIMENSIONS INCH</p> <p>A .75 B .62 C .52 D 1.19 L 18.00</p>
<p>INVERSE RIGHT ANGLE RECEPTACLE</p>	<p>WPC-1-MS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C .50 D 1.25 E 2.37 L 18.00</p>	<p>WPC-2-MS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C .50 D 1.25 E 2.37 L 18.00</p>	<p>WPC-3-MS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C .50 D 1.25 E 2.37 L 18.00</p>	<p>WPC-4-MS-RA DIMENSIONS INCH</p> <p>A .75 B .62 C .50 D 1.25 E 2.37 L 18.00</p>





U.S.I WPC BULKHEAD


	#1- 10 AWG	#1- 10 AWG #2- 14 AWG	#1- 10 AWG #2- 14 AWG #3- 14 AWG	#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG
 BULKHEAD PLUG	WPC-1-MP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-2-MP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-3-MP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-4-MP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019
 INVERSE BULKHEAD PLUG	WPC-1-FP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-2-FP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-3-FP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-4-FP-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019

	#1- 10 AWG	#1- 10 AWG #2- 14 AWG	#1- 10 AWG #2- 14 AWG #3- 14 AWG	#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG
 BULKHEAD RECEPTABLE	WPC-1-FS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.50 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-2-FS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.50 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-3-FS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.50 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-4-FS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.50 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019
 INVERSE BULKHEAD RECEPTABLE	WPC-1-MS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-2-MS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-3-MS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	WPC-4-MS-BH-1 DIMENSIONS INCH A ø1.00 B .62 C 1.24 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019





U.S.I WPC BULKHEAD THREAD FOR LOCKING SLEEVE

 BULKHEAD PLUG	#1- 10 AWG	#1- 10 AWG #2- 14 AWG	#1- 10 AWG #2- 14 AWG #3- 14 AWG	#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG
				
	WPC-1-MP-BH-2	WPC-2-MP-BH-2	WPC-3-MP-BH-2	WPC-4-MP-BH-2
	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019

 INVERSE BULKHEAD RECEPTACLE	#1- 10 AWG	#1- 10 AWG #2- 14 AWG	#1- 10 AWG #2- 14 AWG #3- 14 AWG	#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG
				
	WPC-1-MS-BH-2	WPC-2-MS-BH-2	WPC-3-MS-BH-2	WPC-4-MS-BH-2
	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019	DIMENSIONS INCH A .92 B .62 C 1.09 D .75 E 3/4-16UNF F 1.12 L 18.00 O-RING 2-019

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10603 Progress way, Cypress CA 90630
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ST UNDERWATER CONNECTOR SERIES

PRODUCTS FEATURE:

This very reliable and proven SELF-PURGING & PRESSURED BALANCED Series is the traditional underwater pluggable connector. This series has been accepted by nearly every underwater subsea and hazardous industry in the world. The ST Connector Series is very rugged while providing the user with a wide range of body styles; in-line, bulkhead, and dummy configurations. Connector body is neoprene rubber molded directly to the cable with heat treated beryllium copper contacts. The user has the choice of 1,2,3,4,5,6, and 8 contact versions available with a choice of 7.5,15,60,85,100, and 175 amp power rated conductors.

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CIRCULAR WITH FLANGE E CONTACT CONNECTORS

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CIRCULAR WITH FLANGE F CONTACT CONNECTORS

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ST CIRCULAR F CONTACT FIELD INSTALLABLE AND OIL FILLED CONNECTORS

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U.S.I ST CIRCULAR "E" CONTACT

◐ INDICATE POLARIZING PIN

<p>IN-LINE PLUG</p>		STE1CM-1 (STE1M-1) DIMENSIONS INCH A .43 B 1.00 C 1.00 L 24.00	STE1CM-2 (STE1M-2) DIMENSIONS INCH A .62 B 1.00 C 1.56 L 24.00	STE2CM-1 (STE2M-1) DIMENSIONS INCH A .100 B 1.00 C .75 L 24.00	STE3CM-1 (STE3M-1) DIMENSIONS INCH A .100 B 1.00 C .75 L 24.00	STE4CM-1 (STE4M-1) DIMENSIONS INCH A .125 B 1.00 C .75 L 36.00
<p>BULKHEAD PLUG</p>		STE1CM-BH (STE1M-BH) DIMENSIONS INCH A .62 B 1.00 C .62 D 1.12 E .50 F 7/16-20UNF G .75 L 12.00 *O-RING 2-014	STE2CM-BH (STE2M-BH) DIMENSIONS INCH A .100 B 1.00 C 1.12 D 1.62 E .50 F 7/16-20UNF G .75 L 12.00 *O-RING 2-014	STE3CM-BH (STE3M-BH) DIMENSIONS INCH A .100 B 1.00 C 1.12 D 1.62 E .50 F 7/16-20UNF G .75 L 12.00 *O-RING 2-014	STE4CM-BH (STE4M-BH) DIMENSIONS INCH A .125 B 1.00 C 1.12 D 1.62 E .50 F 1/2-20UNF G .87 L 12.00 *O-RING 2-015	

			<p>◐ INDICATE POLARIZING HOLE</p>			
<p>IN-LINE RECEPTACLE</p>		STE1CF-1 (STE1F-1) DIMENSIONS INCH A .45 B .93 C 1.12 L 24.00				
<p>BULKHEAD RECEPTACLE</p>		STE1CF-2 (STE1F-2) DIMENSIONS INCH A .62 B 1.56 C 2.00 L 24.00	STE2CF-1 (STE2F-1) DIMENSIONS INCH A .100 B 1.12 C 1.62 L 24.00	STE3CF-1 (STE3F-1) DIMENSIONS INCH A .100 B 1.12 C 1.62 L 24.00	STE4CF-1 (STE4F-1) DIMENSIONS INCH A .125 B 1.12 C 1.62 L 36.00	
<p>BULKHEAD RECEPTACLE</p>		STE1CF-BH (STE1F-BH) DIMENSIONS INCH A .62 B 1.50 C 2.00 D .50 E 7/16-20UNF F .75 L 12.00 *O-RING 2-014	STE2CF-BH (STE2F-BH) DIMENSIONS INCH A .100 B 1.12 C 1.62 D .50 E 7/16-20UNF F .75 L 12.00 *O-RING 2-014	STE3CF-BH (STE3F-BH) DIMENSIONS INCH A .100 B 1.12 C 1.62 D .50 E 7/16-20UNF F .75 L 12.00 *O-RING 2-014	STE4CF-BH (STE4F-BH) DIMENSIONS INCH A .125 B 1.12 C 1.62 D .50 E 1/2-20UNF F .87 L 12.00 *O-RING 2-015	

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REV. A SECTION 2-1



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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U.S.I ST CIRCULAR "F" CONTACT



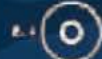




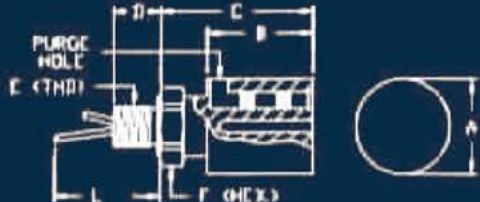


(● INDICATE POLARIZING PIN)

<p>IN-LINE PLUG</p>					
	STF2CM-1 (STF2M-1) DIMENSIONS INCH A ø.43 B 1.00 C 1.00 L 24.00	STF2CM-2 (STF2M-50) DIMENSIONS INCH A ø.62 B 1.00 C 1.56 L 24.00	STF4CM-1 (STF4M-1) DIMENSIONS INCH A ø1.00 B 1.00 C .75 L 24.00	STF6CM-1 (STF6M-1) DIMENSIONS INCH A ø1.25 B 1.00 C .75 L 36.00	STF8CM-1 (STF8M-1) DIMENSIONS INCH A ø1.25 B 1.00 C .75 L 36.00
<p>BULKHEAD PLUG</p>	STF2CM-BH (STF2M-1) DIMENSIONS INCH A ø.62 B 1.00 C .62 D 1.62 E .50 F 7/16-20UNF G .75 L 12.00 *O*-RING 2-014	STF4CM-BH (STF4M-1) DIMENSIONS INCH A ø1.00 B 1.00 C 1.62 D 1.62 E .50 F 7/16-20UNF G .75 L 12.00 *O*-RING 2-014	STF6CM-BH (STF6M-1) DIMENSIONS INCH A ø1.25 B 1.00 C 1.62 D 1.62 E .50 F 1/2-20UNF G .87 L 12.00 *O*-RING 2-015	STF8CM-BH (STF8M-1) DIMENSIONS INCH A ø1.25 B 1.00 C 1.62 D 1.62 E .50 F 1/2-20UNF G .87 L 12.00 *O*-RING 2-015	STF8CM-BH (STF8M-1) DIMENSIONS INCH A ø1.25 B 1.00 C 1.62 D 1.62 E .50 F 1/2-20UNF G .87 L 12.00 *O*-RING 2-015



(● INDICATE POLARIZING HOLE)

	 <p>IN-LINE RECEPTACLE</p>	<p>STF2CF-1 (STF2F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø.45 B .93 C 1.12 L 24.00</p>				
 <p>IN-LINE RECEPTACLE</p>	<p>STF2CF-2 (STF2F-10)</p> <p>DIMENSIONS INCH</p> <p>A ø.62 B 1.56 L 24.00</p>	<p>STF4CF-1 (STF4F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.00 B 1.12 L 24.00</p>	<p>STF6CF-1 (STF6F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.25 B 1.12 L 36.00</p>	<p>STF8CF-1 (STF8F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.25 B 1.12 L 36.00</p>		
 <p>BULKHEAD RECEPTACLE</p>	<p>STF2CF-BH (STF2F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø.62 B 1.50 C 2.00 D .50 E 7/16-20UNF F .75 L 12.00 *O*-RING 2-014</p>	<p>STF4CF-BH (STF4F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.00 B 1.12 C 1.62 D .50 E 7/16-20UNF F .75 L 12.00 *O*-RING 2-014</p>	<p>STF6CF-BH (STF6F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.25 B 1.12 C 1.62 D .50 E 1/2-20UNF F .75 L 12.00 *O*-RING 2-015</p>	<p>STF8CF-BH (STF8F-1)</p> <p>DIMENSIONS INCH</p> <p>A ø1.25 B 1.12 C 1.62 D .50 E 1/2-20UNF F .87 L 12.00 *O*-RING 2-015</p>		

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REV. A SECTION 2-2



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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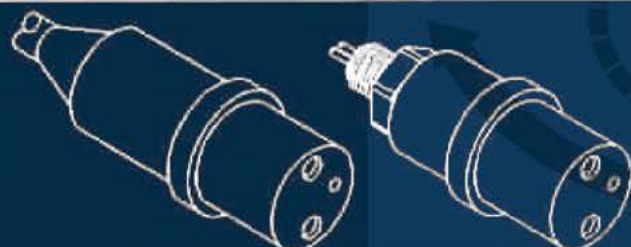


U.S.I ST CIRCULAR WITH FLANGE “E” CONTACT



● INDICATE POLARIZING PIN

<p>IN-LINE PLUG</p>					
		STE1CMF-1 (BS1E1M-1) DIMENSIONS INCH A ø.62 B ø.82 C 1.00 D 1.19 E .25 F 2.50 L 36.00	STE2CMF-1 (BS1E2M-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.00 D 1.19 E .25 F 2.50 L 36.00	STE3CMF-1 (BS1E3M-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.00 D 1.19 E .25 F 2.50 L 36.00	STE4CMF-1 (BS1E4M-1) DIMENSIONS INCH A ø1.25 B ø1.45 C 1.00 D 1.19 E .25 F 2.50 L 36.00
<p>BULKHEAD PLUG</p>					
		STE1CMF-BH (BS1E1M-1) DIMENSIONS INCH A ø.62 B ø.82 C 1.00 D 1.19 E .25 F 2.00 G .50 H 1/2-20UNF I .87 L 12.00 *O*-RING 2-015	STE2CMF-BH (BS1E2M-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.00 D 1.19 E .25 F 2.00 G .50 H 1/2-20UNF I .87 L 12.00 *O*-RING 2-015	STE3CMF-BH (BS1E3M-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.00 D 1.19 E .25 F 2.00 G .50 H 1/2-20UNF I .87 L 12.00 *O*-RING 2-015	STE4CMF-BH (BS1E4M-1) DIMENSIONS INCH A ø1.25 B ø1.45 C 1.00 D 1.19 E .25 F 2.00 G .50 H 3/4-16UNF I 1.12 L 12.00 *O*-RING 2-019



● INDICATE POLARIZING HOLE

<p>IN-LINE RECEPTACLE</p>					
		STE1CFF-1 (BS1E1F-1) DIMENSIONS INCH A ø.62 B ø.82 C 1.19 D .25 E 2.50 L 36.00	STE2CFF-1 (BS1E2F-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.19 D .25 E 2.50 L 36.00	STE3CFF-1 (BS1E3F-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.19 D .25 E 2.50 L 36.00	STE4CFF-1 (BS1E4F-1) DIMENSIONS INCH A ø1.25 B ø1.45 C 1.19 D .25 E 2.50 L 36.00
<p>BULKHEAD RECEPTACLE</p>					
		STE1CFF-BH (BS1E1F-1) DIMENSIONS INCH A ø.62 B ø.82 C 1.19 D .25 E 2.31 F .50 G 1/2-20UNF H .87 L 12.00 *O*-RING 2-015	STE2CFF-BH (BS1E2F-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.19 D .25 E 2.31 F .50 G 1/2-20UNF H .87 L 12.00 *O*-RING 2-015	STE3CFF-BH (BS1E3F-1) DIMENSIONS INCH A ø1.00 B ø1.20 C 1.19 D .25 E 2.31 F .50 G 1/2-20UNF H .87 L 12.00 *O*-RING 2-015	STE4CFF-BH (BS1E4F-1) DIMENSIONS INCH A ø1.25 B ø1.45 C 1.19 D .25 E 2.31 F .50 G 3/4-16UNF H 1.12 L 12.00 *O*-RING 2-019

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SECTION 2-3



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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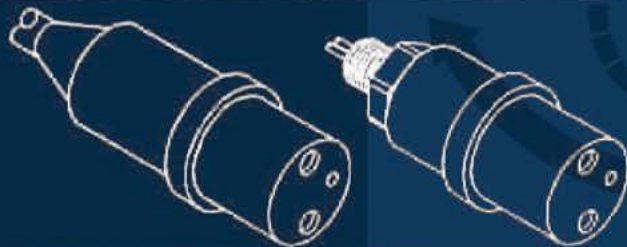


U.S.I ST CIRCULAR WITH FLANGE “F” CONTACT



(● INDICATE POLARIZING PIN)

<p>IN-LINE PLUG</p>				
<p>BULKHEAD PLUG</p>				



(● INDICATE POLARIZING HOLE)

<p>IN-LINE RECEPTACLE</p>				
<p>BULKHEAD RECEPTACLE</p>				

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com





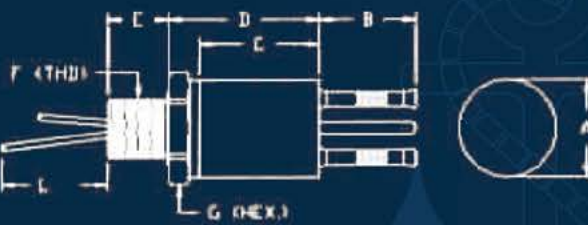
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U.S.I ST CIRCULAR "H" CONTACT




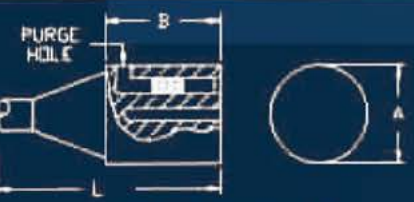
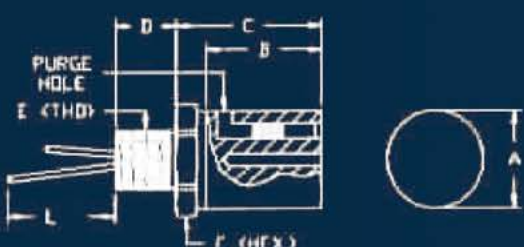


● INDICATE POLARIZING PIN

			
 IN-LINE PLUG	STH1CH-1 (S1H1M-1) DIMENSIONS INCH A ø1.00 B 2.00 C 1.50 L 36.00	STH3CH-1 (S1H3M-1) DIMENSIONS INCH A ø2.00 B 2.00 C 1.50 L 36.00	STH4CH-1 (S1H4M-1) DIMENSIONS INCH A 2.00 B 2.00 C 1.50 L 36.00
 BULKHEAD PLUG	STH1CH-BH (S3H1M-1) DIMENSIONS INCH A ø1.00 B 2.00 C 1.81 D 2.37 E .75 F 3/4-16UNF G 1.12 L 12.00 *O-RING 2-019	STH3CH-BH (S3H3M-1) DIMENSIONS INCH A ø2.00 B 2.00 C 2.50 D 3.12 E 1.25 F 1 1/4-12UNF G 2.00 L 12.00 *O-RING 2-125	STH4CH-BH (S3H4M-1) DIMENSIONS INCH A ø2.00 B 2.00 C 2.50 D 3.125 E 1.25 F 1 1/4-12UNF G 2.00 L 12.00 *O-RING 2-125



● INDICATE POLARIZING HOLE

			
 IN-LINE RECEPTACLE	STH1CH-1 (S1H1M-1) DIMENSIONS INCH A ø1.00 B 2.00 C 1.50 L 36.00	STH3CH-1 (S1H3M-1) DIMENSIONS INCH A ø2.00 B 2.00 C 1.50 L 36.00	STH4CH-1 (S1H4M-1) DIMENSIONS INCH A 2.00 B 2.00 C 1.50 L 36.00
 BULKHEAD RECEPTACLE	STH1CF-BH (S3H1F-1) DIMENSIONS INCH A ø1.00 B 2.93 C 3.5 D .75 E 3/4-16UNF F 1.12 L 12.00 *O-RING 2-019	STH3CF-BH (S3H3F-1) DIMENSIONS INCH A ø2.00 B 2.37 C 3.00 D 1.25 E 1 1/4-12UNF F 2.00 L 12.00 *O-RING 2-125	STH4CF-BH (S3H4F-1) DIMENSIONS INCH A ø2.00 B 2.37 C 3.00 D 1.25 E 1 1/4-12UNF F 2.00 L 12.00 *O-RING 2-125





SECTION

2 - 6



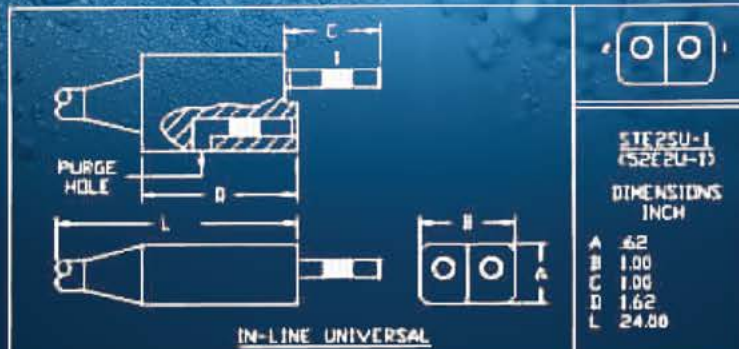
**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
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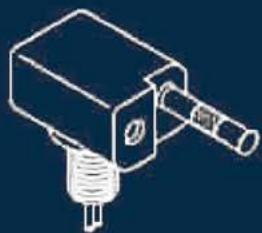
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U.S.I ST SQUARE UNIVERSAL



ST25U-1 (SIDE 2U-1)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	1.62
L	24.00

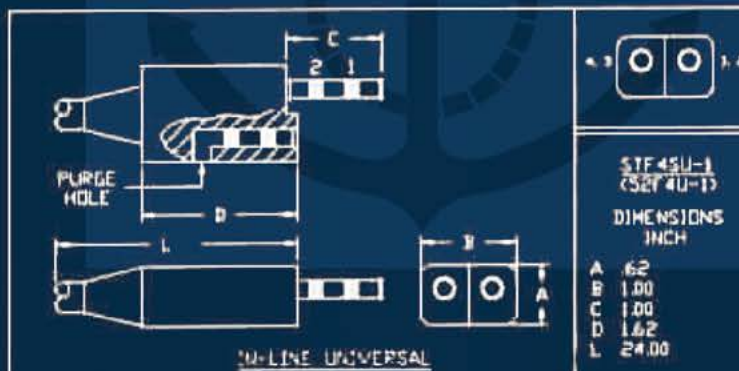
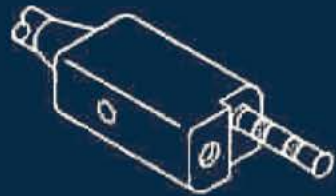


ST25U-1 (SIDE 2U-1)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	1.62
L	24.00

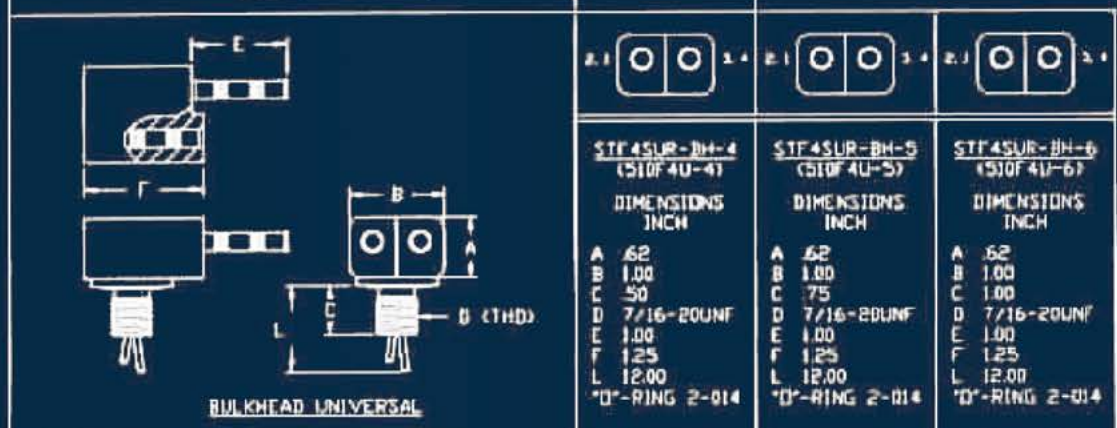
ST25UR-BH-4 (SIDE 2U-4)	
DIMENSIONS INCH	
A	.62
B	1.00
C	.50
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	

ST25UR-BH-5 (SIDE 2U-5)	
DIMENSIONS INCH	
A	.62
B	1.00
C	.75
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	

ST25UR-BH-6 (SIDE 2U-6)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	



STF45U-1 (SIDE 4U-1)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	1.62
L	24.00



STF45U-1 (SIDE 4U-1)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	1.62
L	24.00

STF45UR-BH-4 (SIDE 4U-4)	
DIMENSIONS INCH	
A	.62
B	1.00
C	.50
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	





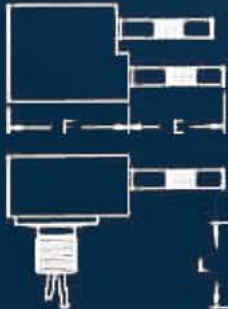



STF45UR-BH-5 (SIDE 4U-5)	
DIMENSIONS INCH	
A	.62
B	1.00
C	.75
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	

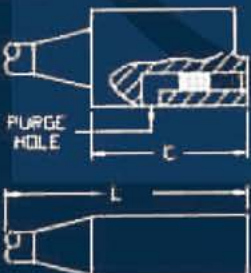






STF45UR-BH-6 (SIDE 4U-6)	
DIMENSIONS INCH	
A	.62
B	1.00
C	1.00
D	7/16-20UNF
E	1.00
F	1.25
L	12.00
O-RING 2-014	





U.S.I ST SQUARE "E" CONTACT

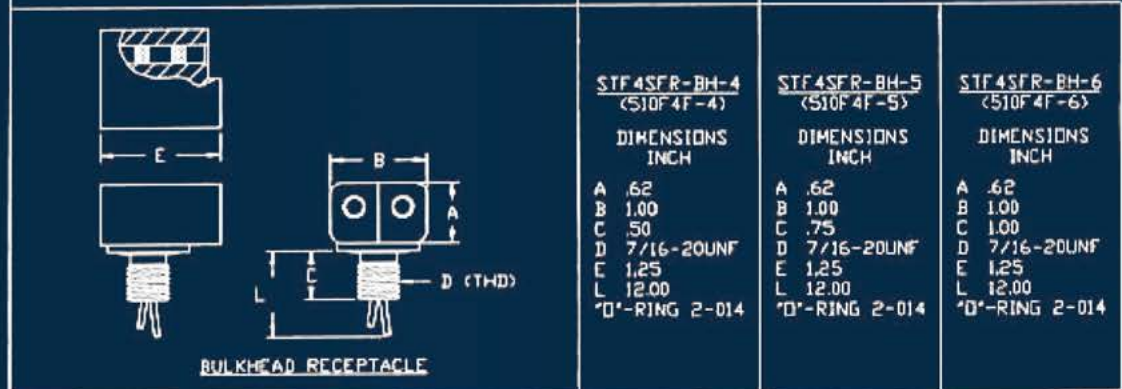
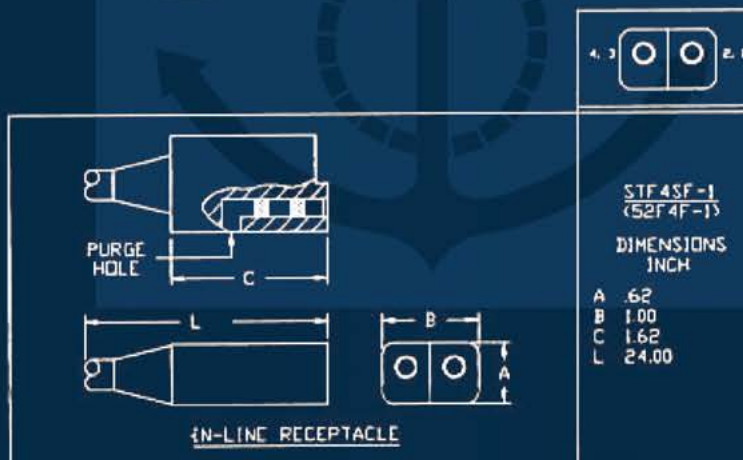
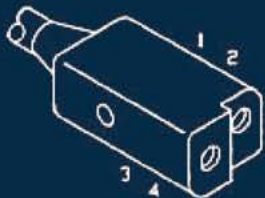
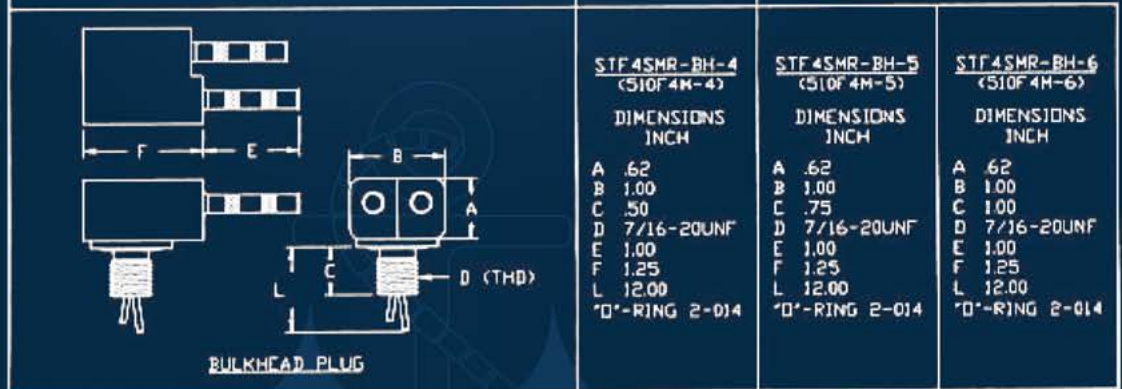
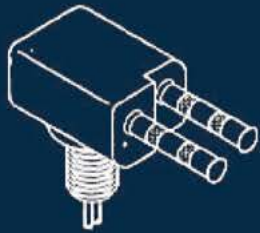
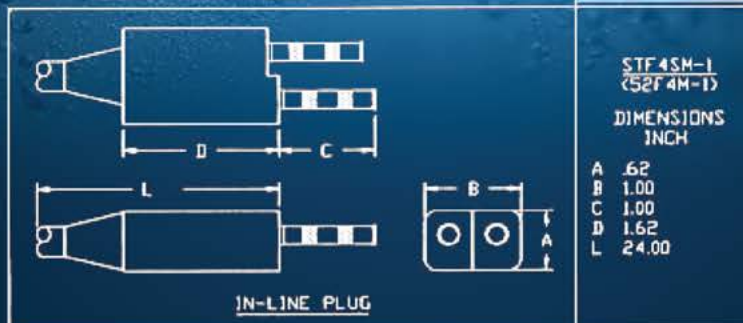
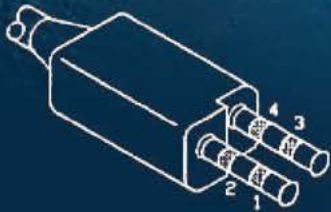
  	 <u>STE2SM-1</u> <u>(SPE2M-1)</u> DIMENSIONS INCH A .62 B 1.00 C 1.00 D 1.62 L 24.00		
IN-LINE PLUG			
   	<u>STE2SMR-BH-4</u> <u>(S10E2M-4)</u> DIMENSIONS INCH A .62 B 1.00 C .50 D 7/16-20UNF E 1.00 F 1.25 L 12.00 *O*-RING 2-014	<u>STE2SMR-BH-5</u> <u>(S10E2M-5)</u> DIMENSIONS INCH A .62 B 1.00 C .75 D 7/16-20UNF E 1.00 F 1.25 L 12.00 *O*-RING 2-014	<u>STE2SMR-BH-6</u> <u>(S10E2M-6)</u> DIMENSIONS INCH A .62 B 1.00 C 1.00 D 7/16-20UNF E 1.00 F 1.25 L 12.00 *O*-RING 2-014
BULKHEAD PLUG			

 <p>PURGE HOLE</p> <p>C</p> <p>L</p> <p>B</p> <p>A</p> <p><u>IN-LINE RECEPTACLE</u></p>	 <p>STE2SF-1 (SPE2F-1)</p> <p>DIMENSIONS INCH</p> <p>A .62 B 1.00 C 1.62 L 24.00</p>		
 <p>E</p> <p>B</p> <p>A</p> <p>L</p> <p>C</p> <p>D (THD)</p> <p><u>BULKHEAD RECEPTACLE</u></p>	 <p>STE2SFR-BH-4 (S10E2F-4)</p> <p>DIMENSIONS INCH</p> <p>A .62 B 1.00 C .50 D 7/16-20UNF E 1.25 L 12.00 *O*-RING 2-014</p>	 <p>STE2SFR-BH-5 (S10E2F-5)</p> <p>DIMENSIONS INCH</p> <p>A .62 B 1.00 C .75 D 7/16-20UNF E 1.25 L 12.00 *O*-RING 2-014</p>	 <p>STE2SFR-BH-6 (S10E2F-6)</p> <p>DIMENSIONS INCH</p> <p>A .62 B 1.00 C 1.00 D 7/16-20UNF E 1.25 L 12.00 *O*-RING 2-014</p>



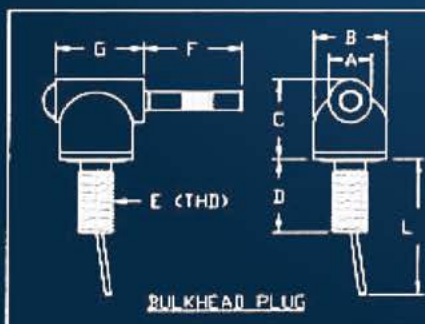


U.S.I ST SQUARE "F" CONTACT

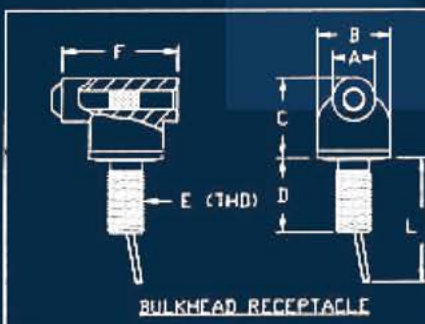




U.S.I ST CIRCULAR, RIGHT ANGLE “E” CONTACT



<u>STEICMR-BH-1</u> (59EIM-1) DIMENSIONS INCH	<u>STEICMR-BH-2</u> (59EIM-2) DIMENSIONS INCH	<u>STEICMR-BH-3</u> (59EIM-3) DIMENSIONS INCH
A ø.43 B ø.75 C .81 D .50 E 3/8-24UNF F 1.00 G .90 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D .75 E 3/8-24UNF F 1.00 G .90 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D 1.00 E 3/8-24UNF F 1.00 G .90 L 12.00 *O*-RING 2-014
<u>STEICMR-BH-4</u> (59EIM-4) DIMENSIONS INCH	<u>STEICMR-BH-5</u> (59EIM-5) DIMENSIONS INCH	<u>STEICMR-BH-6</u> (59EIM-6) DIMENSIONS INCH
A ø.43 B ø.75 C .81 D .50 E 7/16-20UNF F 1.00 G .90 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D .75 E 7/16-20UNF F 1.00 G .90 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D 1.00 E 7/16-20UNF F 1.00 G .90 L 12.00 *O*-RING 2-014

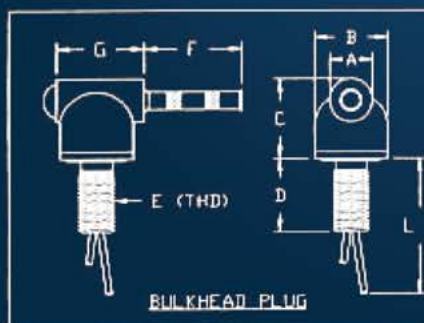


<u>STEICFR-BH-1</u> (59EIF-1) DIMENSIONS INCH	<u>STEICFR-BH-2</u> (59EIF-2) DIMENSIONS INCH	<u>STEICFR-BH-3</u> (59EIF-3) DIMENSIONS INCH
A ø.43 B ø.75 C .81 D .50 E 3/8-24UNF F 1.18 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D .75 E 3/8-24UNF F 1.18 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D 1.00 E 3/8-24UNF F 1.18 L 12.00 *O*-RING 2-014
<u>STEICFR-BH-4</u> (59EIF-4) DIMENSIONS INCH	<u>STEICFR-BH-5</u> (59EIF-5) DIMENSIONS INCH	<u>STEICFR-BH-6</u> (59EIF-6) DIMENSIONS INCH
A ø.43 B ø.75 C .81 D .50 E 7/16-20UNF F 1.18 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D .75 E 7/16-20UNF F 1.18 L 12.00 *O*-RING 2-014	A ø.43 B ø.75 C .81 D 1.00 E 7/16-20UNF F 1.18 L 12.00 *O*-RING 2-014



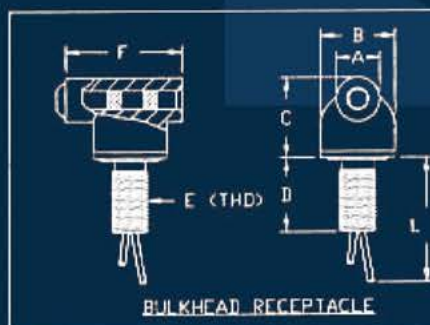


U.S.I ST CIRCULAR, RIGHT ANGLE "F" CONTACT



BULKHEAD PLUG

1 2	1 2	1 2
STF2CMR-BH-1 (59F2M-1) DIMENSIONS INCH A .43 B .75 C .81 D .50 E 3/8-24UNF F 1.00 G .90 L 12.00 *O'-RING 2-014	STF2CMR-BH-2 (59F2M-2) DIMENSIONS INCH A .43 B .75 C .81 D .75 E 3/8-24UNF F 1.00 G .90 L 12.00 *O'-RING 2-014	STF2CMR-BH-3 (59F2M-3) DIMENSIONS INCH A .43 B .75 C .81 D 1.00 E 3/8-24UNF F 1.00 G .90 L 12.00 *O'-RING 2-014
STF2CMR-BH-4 (59F2M-4) DIMENSIONS INCH A .43 B .75 C .81 D .50 E 7/16-20UNF F 1.00 G .90 L 12.00 *O'-RING 2-014	STF2CMR-BH-5 (59F2M-5) DIMENSIONS INCH A .43 B .75 C .81 D .75 E 7/16-20UNF F 1.00 G .90 L 12.00 *O'-RING 2-014	STF2CMR-BH-6 (59F2M-6) DIMENSIONS INCH A .43 B .75 C .81 D 1.00 E 7/16-20UNF F 1.00 G .90 L 12.00 *O'-RING 2-014



BULKHEAD RECEPTACLE

2 1	2 1	2 1
STF2CFR-BH-1 (59F2F-1) DIMENSIONS INCH A .43 B .75 C .81 D .50 E 3/8-24UNF F 1.18 L 12.00 *O'-RING 2-014	STF2CFR-BH-2 (59F2F-2) DIMENSIONS INCH A .43 B .75 C .81 D .75 E 3/8-24UNF F 1.18 L 12.00 *O'-RING 2-014	STF2CFR-BH-3 (59F2F-3) DIMENSIONS INCH A .43 B .75 C .81 D 1.00 E 3/8-24UNF F 1.18 L 12.00 *O'-RING 2-014
STF2CFR-BH-4 (59F2F-4) DIMENSIONS INCH A .43 B .75 C .81 D .50 E 7/16-20UNF F 1.18 L 12.00 *O'-RING 2-014	STF2CFR-BH-5 (59F2F-5) DIMENSIONS INCH A .43 B .75 C .81 D .75 E 7/16-20UNF F 1.18 L 12.00 *O'-RING 2-014	STF2CFR-BH-6 (59F2F-6) DIMENSIONS INCH A .43 B .75 C .81 D 1.00 E 7/16-20UNF F 1.18 L 12.00 *O'-RING 2-014





U.S.I ST CIRCULAR, "E" CONTACT FIELD INSTALLABLE & OIL FILLED



(● INDICATE POLARIZING PIN)

	STE1CM-DM DIMENSIONS INCH A ϕ .62 B 1.00 C 1.56 D .63 L 2.73	STE2CM-DM DIMENSIONS INCH A ϕ 1.00 B 1.00 C .75 D .63 L 2.73	STE3CM-DM DIMENSIONS INCH A ϕ 1.00 B 1.00 C .75 D .63 L 2.73	STE4CM-DM DIMENSIONS INCH A ϕ 1.25 B 1.00 C .75 D .65 L 2.73
	STE1CM-DF DIMENSIONS INCH A ϕ .62 B 1.00 C .62 D 1.00 E .43	STE2CM-DF DIMENSIONS INCH A ϕ 1.00 B 1.00 C 1.12 D 1.00 E .43, .50	STE3CM-DF DIMENSIONS INCH A ϕ 1.00 B 1.00 C 1.12 D 1.00 E .43, .50	STE4CM-DF DIMENSIONS INCH A ϕ 1.25 B 1.00 C 1.12 D 1.00 E .43, .50, .62, .75



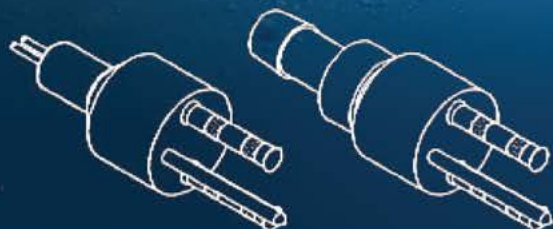
(● INDICATE POLARIZING HOLE)

	STE1CF-DM DIMENSIONS INCH A ϕ .62 B 1.56 C .63 L 2.73	STE2CF-DM DIMENSIONS INCH A ϕ 1.00 B 1.12 C .63 L 2.73	STE3CF-DM DIMENSIONS INCH A ϕ 1.00 B 1.12 C .63 L 2.73	STE4CF-DM DIMENSIONS INCH A ϕ 1.25 B 1.12 C .65 L 2.73
	STE1CF-DF DIMENSIONS INCH A ϕ .62 B 1.50 C 1.00 D .43	STE2CF-DF DIMENSIONS INCH A ϕ 1.00 B 1.12 C 1.00 D .43, .50	STE3CF-DF DIMENSIONS INCH A ϕ 1.00 B 1.12 C 1.00 D .43, .50	STE4CF-DF DIMENSIONS INCH A ϕ 1.25 B 1.12 C 1.00 D .43, .50, .62, .75

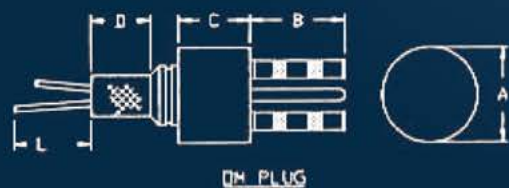
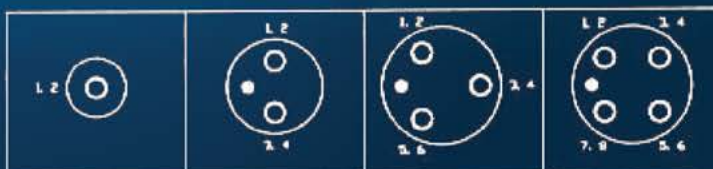




U.S.I ST CIRCULAR, "F" CONTACT FIELD INSTALLABLE & OIL FILLED



(● INDICATE POLARIZING PIN)



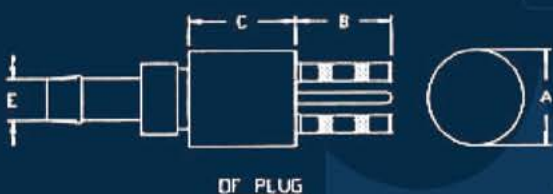
DM PLUG

STF2CM-DM
DIMENSIONS
INCH
A ϕ .62
B 1.00
C 1.56
D .63
L 2.73

STF4CM-DM
DIMENSIONS
INCH
A ϕ 1.00
B 1.00
C .75
D .63
L 2.73

STF6CM-DM
DIMENSIONS
INCH
A ϕ 1.00
B 1.00
C .75
D .63
L 2.73

STF8CM-DM
DIMENSIONS
INCH
A ϕ 1.25
B 1.00
C .75
D .65
L 2.73



DF PLUG

STF2CM-DF
DIMENSIONS
INCH
A ϕ .62
B 1.00
C .62
D 1.00
E .43

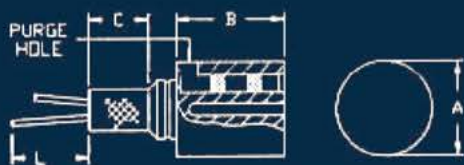
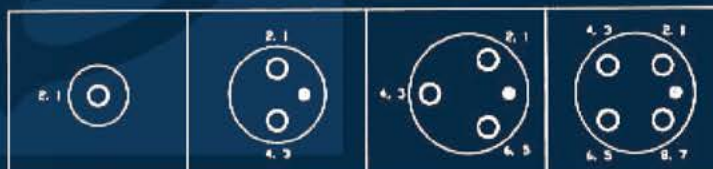
STF4CM-DF
DIMENSIONS
INCH
A ϕ 1.00
B 1.00
C 1.12
D 1.00
E .43, .50

STF6CM-DF
DIMENSIONS
INCH
A ϕ 1.00
B 1.00
C 1.12
D 1.00
E .43, .50

STF8CM-DF
DIMENSIONS
INCH
A ϕ 1.25
B 1.00
C 1.12
D 1.00
E .43, .50, .62, .75



(● INDICATE POLARIZING HOLE)



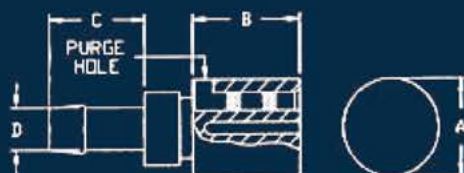
DM RECEPTACLE

STF2CF-DM
DIMENSIONS
INCH
A ϕ .62
B 1.56
C .63
L 2.73

STF4CF-DM
DIMENSIONS
INCH
A ϕ 1.00
B 1.12
C .63
L 2.73

STF6CF-DM
DIMENSIONS
INCH
A ϕ 1.00
B 1.12
C .63
L 2.73

STF8CF-DM
DIMENSIONS
INCH
A ϕ 1.25
B 1.12
C .65
L 2.73



DF RECEPTACLE

STF2CF-DF
DIMENSIONS
INCH
A ϕ .62
B 1.50
C 1.00
D .43

STF4CF-DF
DIMENSIONS
INCH
A ϕ 1.00
B 1.12
C 1.00
D .43, .50

STF6CF-DF
DIMENSIONS
INCH
A ϕ 1.00
B 1.12
C 1.00
D .43, .50

STF8CF-DF
DIMENSIONS
INCH
A ϕ 1.25
B 1.12
C 1.00
D .43, .50, .62, .75





UXSL SERIES

PRODUCTS FEATURE:

Many of the products in this catalog are capable of being mated in under water with electrical power de-energized. Precision interference fit between contacts and neoprene-neoprene interface ensures waterproof integrity when correctly installed and maintained. Bulkhead connectors are molded directly to the face of all threaded fittings to provide maximum strength.

PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I.

UXSL BCR BCP

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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U.S.I UXSL - BCR/BCP



#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG #5- 16 AWG	#1- 16 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG #5- 16 AWG	#6- 16 AWG #7- 16 AWG #8- 16 AWG #9- 16 AWG #10-16 AWG

<p>RECEPTACLE</p>	<p>UXSL-BCR-5</p> <p>DIMENSIONS INCH</p> <p>A $\phi 1.50$ B .50 C 1.25 D 2.22 E 1-14UNS O-RING 2-025</p>	<p>UXSL-BCR-10</p> <p>DIMENSIONS INCH</p> <p>A $\phi 1.50$ B .50 C 1.25 D 2.22 E 1-14UNS O-RING 2-025</p>



#1- 14 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG #5- 16 AWG	#1- 16 AWG #2- 16 AWG #3- 16 AWG #4- 16 AWG #5- 16 AWG	#6- 16 AWG #7- 16 AWG #8- 16 AWG #9- 16 AWG #10-16 AWG

<p>COUPLING NUT PLUG</p>	<p>UXSL-BCP-5</p> <p>DIMENSIONS INCH</p> <p>A $\phi 1.50$ B 1.28 C .50 D 2.22 E 1-14UNS O-RING 2-017 O-RING 2-025</p>	<p>UXSL-BCP-10</p> <p>DIMENSIONS INCH</p> <p>A $\phi 1.50$ B 1.28 C .50 D 2.22 E 1-14UNS O-RING 2-017 O-RING 2-025</p>





SUBSEA UNDERWATER CONNECTOR SERIES

PRODUCTS FEATURE:

This series is widely used in numerous underwater offshore and hazardous environmental applications. This very rugged series is available in circular, and rectangular low-profile body configurations. 1,2,3,4,5,6,8,10,and 12 contact versions are provided with in-line, bulkhead, and dummy connector models. Neoprene rubber molded body with heavy duty gold plated contacts rated for 20 amps at 220 vac.

PRESSURE RATINGS:

Many of the configurations are rated at 20,000 PSI and are wet mateable.

SUBSEA CIRCULAR CONNECTORS

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SUBSEA CIRCULAR FIELD INSTALLABLE AND OIL FILLED CONNECTORS

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way,Cypress CA 90630
Tel:+1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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U.S.I SUBSEA CIRCULAR



(● INDICATE POLARIZING PIN)

	SB2CM-1 (IL-2-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 L 24.00	SB3CM-1 (IL-3-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 L 24.00	SB4CM-1 (IL-4-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 L 24.00	SB6CM-1 (IL-6-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 L 24.00
	SB2CM-BH (BH-2-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 D 1.29 E .75 F 7/16-20UNF G .75 L 18.00 *O-RING 2-014	SB3CM-BH (BH-3-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 D 1.29 E .75 F 7/16-20UNF G .75 L 18.00 *O-RING 2-014	SB4CM-BH (BH-4-MP) DIMENSIONS INCH A $\phi 1.00$ B .75 C .75 D 1.29 E .75 F 7/16-20UNF G .75 L 18.00 *O-RING 2-014	SB6CM-BH (BH-6-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 D 1.25 E .75 F 5/8-18UNF G 1.12 L 18.00 *O-RING 2-017
	SB8CM-1 (IL-8-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 L 24.00	SB10CM-1 (IL-10-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 L 24.00	SB12CM-1 (IL-12-MP) DIMENSIONS INCH A $\phi 1.60$ B .75 C .75 L 24.00	SB16CM-1 (IL-16-MP) DIMENSIONS INCH A $\phi 1.60$ B .75 C .83 L 24.00
	SB8CM-BH (BH-8-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 D 1.25 E .75 F 5/8-18UNF G 1.12 L 18.00 *O-RING 2-017	SB10CM-BH (BH-10-MP) DIMENSIONS INCH A $\phi 1.25$ B .75 C .75 D 1.25 E .75 F 5/8-18UNF G 1.12 L 18.00 *O-RING 2-017	SB12CM-BH (BH-12-MP) DIMENSIONS INCH A $\phi 1.60$ B .75 C .75 D 1.27 E .75 F 5/8-18UNF G 1.12 L 18.00 *O-RING 2-017	SB16CM-BH (BH-16-MP) DIMENSIONS INCH A $\phi 1.60$ B .75 C 1.13 D 1.64 E .75 F 5/8-18UNF G 1.12 L 18.00 *O-RING 2-017





U.S.I SUBSEA CIRCULAR



(● INDICATE POLARIZING HOLE)

<p>IN-LINE RECEPTACLE</p>				
<p>IN-LINE RECEPTACLE</p>	<p>SB2CF-1 (IL-2-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 L 24.00</p>	<p>SB3CF-1 (IL-3-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 L 24.00</p>	<p>SB4CF-1 (IL-4-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 L 24.00</p>	<p>SB6CF-1 (IL-6-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.12 L 24.00</p>
<p>BULKHEAD RECEPTACLE</p>	<p>SB2CF-BH (BH-2-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 C 1.67 D .75 E 7/16-20UNF F .75 L 18.00 "O"-RING 2-014</p>	<p>SB3CF-BH (BH-3-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 C 1.67 D .75 E 7/16-20UNF F .75 L 18.00 "O"-RING 2-014</p>	<p>SB4CF-BH (BH-4-FS) DIMENSIONS INCH</p> <p>A $\phi 1.00$ B 1.12 C 1.67 D .75 E 7/16-20UNF F .75 L 18.00 "O"-RING 2-014</p>	<p>SB6CF-BH (BH-6-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.12 C 1.63 D .75 E 5/8-18UNF F 1.12 L 18.00 "O"-RING 2-017</p>
<p>IN-LINE RECEPTACLE</p>				
<p>IN-LINE RECEPTACLE</p>	<p>SB8CF-1 (IL-8-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.12 L 24.00</p>	<p>SB10CF-1 (IL-10-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.12 L 24.00</p>	<p>SB12CF-1 (IL-12-FS) DIMENSIONS INCH</p> <p>A $\phi 1.60$ B 1.11 L 24.00</p>	<p>SB16CF-1 (IL-16-FS) DIMENSIONS INCH</p> <p>A $\phi 1.60$ B 1.11 L 24.00</p>
<p>BULKHEAD RECEPTACLE</p>	<p>SB8CF-BH (BH-8-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.12 C 1.63 D .75 E 5/8-18UNF F 1.12 L 18.00 "O"-RING 2-017</p>	<p>SB10CF-BH (BH-10-FS) DIMENSIONS INCH</p> <p>A $\phi 1.25$ B 1.25 C 1.63 D .75 E 5/8-18UNF F 1.12 L 18.00 "O"-RING 2-017</p>	<p>SB12CF-BH (BH-12-FS) DIMENSIONS INCH</p> <p>A $\phi 1.60$ B 1.38 C 1.62 D .75 E 5/8-18UNF F 1.12 L 18.00 "O"-RING 2-017</p>	<p>SB16CF-BH (BH-16-FS) DIMENSIONS INCH</p> <p>A $\phi 1.60$ B 1.38 C 1.89 D .75 E 5/8-18UNF F 1.12 L 18.00 "O"-RING 2-017</p>





U.S.I SUBSEA CIRCULAR WITH FLANGE



◀● INDICATE POLARIZING PIN

	SB2CMF-1 DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.50 E .62 F .25 L 24.00	SB3CMF-1 DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.50 E .62 F .25 L 24.00	SB4CMF-1 DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.50 E .62 F .25 L 24.00	SB6CMF-1 DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.50 E .62 F .25 L 24.00
	SB2CMF-BH DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.00 E .62 F .25 G .50 H 1/2-20UNF I .87 L 18.00 *O'-RING 2-015	SB3CMF-BH DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.00 E .62 F .25 G .50 H 1/2-20UNF I .87 L 18.00 *O'-RING 2-015	SB4CMF-BH DIMENSIONS INCH A ø1.00 B ø1.20 C .75 D 2.00 E .62 F .25 G .50 H 1/2-20UNF I .87 L 18.00 *O'-RING 2-015	SB6CMF-BH DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.00 E .62 F .25 G .75 H 5/8-18UNF I 1.12 L 18.00 *O'-RING 2-017
	SB8CMF-1 DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.50 E .62 F .25 L 24.00	SB10CMF-1 DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.50 E .62 F .25 L 24.00	SB12CMF-1 DIMENSIONS INCH A ø1.60 B ø1.84 C .75 D .75 E .62 F .25 L 24.00	SB16CMF-1 DIMENSIONS INCH A ø1.60 B ø1.84 C .75 D .83 E .62 F .25 L 24.00
	SB8CMF-BH DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.00 E .62 F .25 G .75 H 5/8-18UNF I 1.12 L 18.00 *O'-RING 2-017	SB10CMF-BH DIMENSIONS INCH A ø1.25 B ø1.45 C .75 D 2.00 E .62 F .25 G .75 H 5/8-18UNF I 1.12 L 18.00 *O'-RING 2-017	SB12CMF-BH DIMENSIONS INCH A ø1.60 B ø1.84 C .75 D 1.27 E .62 F .25 G .75 H 5/8-18UNF I 1.12 L 18.00 *O'-RING 2-017	SB16CMF-BH DIMENSIONS INCH A ø1.60 B ø1.84 C .75 D 1.64 E .70 F .25 G .75 H 5/8-18UNF I 1.12 L 18.00 *O'-RING 2-017

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
 Tel: +1-714-229 9268 Fax: +1-714-229 9274
 E-Mail: info@underwatersystems.com
 www.underwatersystems.com

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U.S.I SUBSEA CIRCULAR WITH FLANGE



(● INDICATE POLARIZING HOLE)

	SB2CFF-1 DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.50 D .75 E .25 L 24.00	SB3CFF-1 DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.50 D .75 E .25 L 24.00	SB4CFF-1 DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.50 D .75 E .25 L 24.00	SB6CFF-1 DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.50 D .75 E .25 L 24.00
	SB2CFF-BH DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.31 D .75 E .25 F .50 G 1/2-20UNF H .87 L 18.00 *O'-RING 2-015	SB3CFF-BH DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.31 D .75 E .25 F .50 G 1/2-20UNF H .87 L 18.00 *O'-RING 2-015	SB4CFF-BH DIMENSIONS INCH A $\phi 1.00$ B $\phi 1.20$ C 2.31 D .75 E .25 F .50 G 1/2-20UNF H .87 L 18.00 *O'-RING 2-015	SB6CFF-BH DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.31 D .75 E .25 F .75 G 5/8-18UNF H 1.12 L 18.00 *O'-RING 2-017
	SB8CFF-1 DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.50 D .75 E .25 L 24.00	SB10CFF-1 DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.50 D .75 E .25 L 24.00	SB12CFF-1 DIMENSIONS INCH A $\phi 1.60$ B $\phi 1.84$ C 1.11 D .75 E .25 L 24.00	SB16CFF-1 DIMENSIONS INCH A $\phi 1.60$ B $\phi 1.84$ C 1.11 D .75 E .25 L 24.00
	SB8CFF-BH DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.31 D .75 E .25 F .75 G 5/8-18UNF H 1.12 L 18.00 *O'-RING 2-017	SB10CFF-BH DIMENSIONS INCH A $\phi 1.25$ B $\phi 1.45$ C 2.31 D .75 E .25 F .75 G 5/8-18UNF H 1.12 L 18.00 *O'-RING 2-017	SB12CFF-BH DIMENSIONS INCH A $\phi 1.60$ B $\phi 1.84$ C 1.89 D .75 E .25 F .75 G 5/8-18UNF H 1.12 L 18.00 *O'-RING 2-017	SB16CFF-BH DIMENSIONS INCH A $\phi 1.60$ B $\phi 1.84$ C 1.89 D .75 E .25 F .75 G 5/8-18UNF H 1.12 L 18.00 *O'-RING 2-017

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
 Tel: +1-714-229 9268 Fax: +1-714-229 9274
 E-Mail: info@underwatersystems.com
 www.underwatersystems.com

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U.S.I SUBSEA SQUARE



(● INDICATE POLARIZING PIN)

 IN-LINE PLUG	<u>SB2SM-1</u> (LPIL-2-MP) DIMENSIONS INCH A .55 B .86 C .75 D 1.63 L 24.00	<u>SB3SM-1</u> (LPIL-3-MP) DIMENSIONS INCH A .55 B 1.00 C .75 D 1.63 L 24.00	<u>SB4SM-1</u> (LPIL-4-MP) DIMENSIONS INCH A .55 B 1.00 C .75 D 1.63 L 24.00	<u>SB7SM-1</u> (LPIL-7-MP) DIMENSIONS INCH A .73 B 1.00 C .75 D 1.72 L 24.00	<u>SB9SM-1</u> (LPIL-9-MP) DIMENSIONS INCH A .84 B 1.25 C .75 D 1.74 L 24.00
 BULKHEAD PLUG	<u>SB2SM-BH</u> (LPBH-2-MP) DIMENSIONS INCH A .55 B .86 C .50, .75, 1.00 D 7/16-20UNF E .75 F 1.25 L 12.00 "O"-RING 2-014	<u>SB3SM-BH</u> (LPBH-3-MP) DIMENSIONS INCH A .55 B 1.00 C .50, .75, 1.00 D 7/16-20UNF E .75 F 1.25 L 12.00 "O"-RING 2-014	<u>SB4SM-BH</u> (LPBH-4-MP) DIMENSIONS INCH A .55 B 1.00 C .50, .75, 1.00 D 7/16-20UNF E .75 F 1.25 L 12.00 "O"-RING 2-014	<u>SB7SM-BH</u> (LPBH-7-MP) DIMENSIONS INCH A .73 B 1.00 C 1.00 D 7/16-20UNF E .75 F 1.25 L 12.00 "O"-RING 2-014	<u>SB9SM-BH</u> (LPBH-9-MP) DIMENSIONS INCH A .84 B 1.25 C 1.00 D 7/16-20UNF E .75 F 1.25 L 12.00 "O"-RING 2-014



(● INDICATE POLARIZING HOLE)

 IN-LINE RECEPTACLE	<u>SB2SF-1</u> (LPIL-2-FS) DIMENSIONS INCH A .55 B .86 C 1.63 L 24.00	<u>SB3SF-1</u> (LPIL-3-FS) DIMENSIONS INCH A .55 B 1.00 C 1.63 L 24.00	<u>SB4SF-1</u> (LPIL-4-FS) DIMENSIONS INCH A .55 B 1.00 C 1.63 L 24.00	<u>SB7SF-1</u> (LPIL-7-FS) DIMENSIONS INCH A .73 B 1.00 C 2.11 L 24.00	<u>SB9SF-1</u> (LPIL-9-FS) DIMENSIONS INCH A .84 B 1.25 C 1.74 L 24.00
 BULKHEAD RECEPTACLE	<u>SB2SF-BH</u> (LPBH-2-FS) DIMENSIONS INCH A .55 B .86 C .50, .75, 1.00 D 7/16-20UNF E 1.25 L 12.00 "O"-RING 2-014	<u>SB3SF-BH</u> (LPBH-3-FS) DIMENSIONS INCH A .55 B 1.00 C .50, .75, 1.00 D 7/16-20UNF E 1.25 L 12.00 "O"-RING 2-014	<u>SB4SF-BH</u> (LPBH-4-FS) DIMENSIONS INCH A .55 B 1.00 C .50, .75, 1.00 D 7/16-20UNF E 1.25 L 12.00 "O"-RING 2-014	<u>SB7SF-BH</u> (LPBH-7-FS) DIMENSIONS INCH A .73 B 1.00 C 1.00 D 7/16-20UNF E 1.75 L 12.00 "O"-RING 2-014	<u>SB9SF-BH</u> (LPBH-9-FS) DIMENSIONS INCH A .84 B 1.25 C 1.00 D 7/16-20UNF E 1.75 L 12.00 "O"-RING 2-014

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REV. A SECTION 3-5



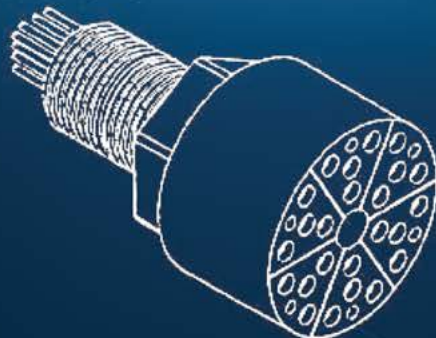
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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
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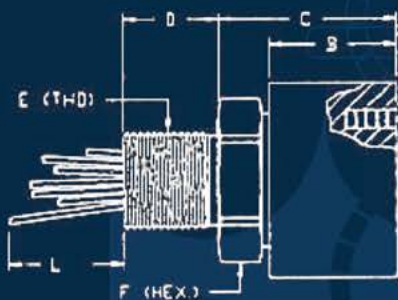
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U.S.I SUBSEA CIRCULAR SPLIT



(◐ INDICATE POLARIZING HOLE)



BULKHEAD RECEPTACLE



SB24CF-S-BH
(AW-24S-9C)
DIMENSIONS
INCH

A .02.00
B 1.28
C 1.80
D 1.00
E 1-14UNS
F 1.50
L 15.00
*O-RING 2-122



(◐ INDICATE POLARIZING PIN)



IN-LINE PLUG



SB4CM/24
(AW-4/24-MP SPLIT)
DIMENSIONS
INCH

A .83
B .98
C .75
D .75
L 18.00





U.S.I SUBSEA CIRCULAR FIELD INSTALLABLE & OIL FILLED



(● INDICATE POLARIZING PIN)

	SB2CM-DM (DM2M) DIMENSIONS INCH A ø1.00 B .75 C .75 D .63 L 2.73	SB3CM-DM (DM3M) DIMENSIONS INCH A ø1.00 B .75 C .75 D .63 L 2.73	SB4CM-DM (DM4M) DIMENSIONS INCH A ø1.00 B .75 C .75 D .63 L 2.73	SB6CM-DM (DM6M) DIMENSIONS INCH A ø1.25 B .75 C .75 D .65 L 2.73
	SB2CM-DF DIMENSIONS INCH A ø1.00 B .75 C .75 D 1.00 E .43, .50	SB3CM-DF DIMENSIONS INCH A ø1.00 B .75 C .75 D 1.00 E .43, .50	SB4CM-DF DIMENSIONS INCH A ø1.00 B .75 C .75 D 1.00 E .43, .50	SB6CM-DF DIMENSIONS INCH A ø1.25 B .75 C .75 D 1.00 E .43, .50, .62, .75
	SB8CM-DM (DM8M) DIMENSIONS INCH A ø1.25 B .75 C .75 D .65 L 2.73	SB10CM-DM (DM10M) DIMENSIONS INCH A ø1.25 B .75 C .75 D .65 L 2.73	SB12CM-DM (DM12M) DIMENSIONS INCH A ø1.60 B .75 C .75 D .65 L 2.73	SB16CM-DM (DM16M) DIMENSIONS INCH A ø1.60 B .75 C .83 D .65 L 2.73
	SB8CM-DF DIMENSIONS INCH A ø1.25 B .75 C .75 D 1.00 E .43, .50, .62, .75	SB10CM-DF DIMENSIONS INCH A ø1.25 B .75 C .75 D 1.00 E .43, .50, .62, .75	SB12CM-DF DIMENSIONS INCH A ø1.60 B .75 C .75 D 1.00 E .43, .50, .62, .75	SB16CM-DF DIMENSIONS INCH A ø1.60 B .75 C .83 D 1.00 E .43, .50, .62, .75

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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U.S.I SUBSEA CIRCULAR FIELD INSTALLABLE & OIL FILLED



(● INDICATE POLARIZING HOLE)

	SB2CF-DM (DM2F) DIMENSIONS INCH A ø1.00 B 1.12 C .63 L 2.73	SB3CF-DM (DM3F) DIMENSIONS INCH A ø1.00 B 1.12 C .63 L 2.73	SB4CF-DM (DM4F) DIMENSIONS INCH A ø1.00 B 1.12 C .63 L 2.73	SB6CF-DM (DM6F) DIMENSIONS INCH A ø1.25 B 1.12 C .65 L 2.73
	SB2CF-DF DIMENSIONS INCH A ø1.00 B 1.12 C 1.00 D .43, .50	SB3CF-DF DIMENSIONS INCH A ø1.00 B 1.12 C 1.00 D .43, .50	SB4CF-DF DIMENSIONS INCH A ø1.00 B 1.12 C 1.00 D .43, .50	SB6CF-DF DIMENSIONS INCH A ø1.25 B 1.12 C 1.00 D .43, .50, .62, .75
	SB8CF-DM (DM8F) DIMENSIONS INCH A ø1.25 B 1.12 C .65 L 2.73	SB10CF-DM (DM10F) DIMENSIONS INCH A ø1.25 B 1.12 C .65 L 2.73	SB12CF-DM (DM12F) DIMENSIONS INCH A ø1.60 B 1.11 C .65 L 2.73	SB16CF-DM (DM16F) DIMENSIONS INCH A ø1.60 B 1.11 C .65 L 2.73
	SB8CF-DF DIMENSIONS INCH A ø1.25 B 1.12 C 1.00 D .43, .50, .62, .75	SB10CF-DF DIMENSIONS INCH A ø1.25 B 1.12 C 1.00 D .43, .50, .62, .75	SB12CF-DF DIMENSIONS INCH A ø1.60 B 1.11 C 1.00 D .43, .50, .62, .75	SB16CF-DF DIMENSIONS INCH A ø1.60 B 1.11 C 1.00 D .43, .50, .62, .75

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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Field Installable Boots Series

FIELD INSTALLABLE BOOTS SERIES

PRODUCTS FEATURE:

Many of the products in this catalog are capable of being mated in under water with electrical power de-energized. Precision interference fit between contacts and neoprene-neoprene interface ensures waterproof integrity when correctly installed and maintained. Bulkhead connectors are molded directly to the face of all threaded fittings to provide maximum strength.

PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I.

FIELD INSTALLABLE BOOTS

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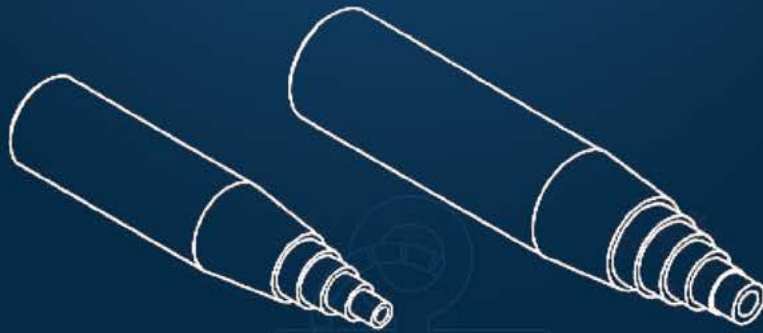
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SYSTEMS INC.**



10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
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U.S.I FIELD INSTALLABLE BOOT



	<p>F180M (DMBA)</p> <p>DIMENSIONS INCH</p> <p>A ϕ.87 B 4.22</p>
	<p>F1100M (DMBB)</p> <p>DIMENSIONS INCH</p> <p>A ϕ1.06 B 5.20</p>





MINIATURE UNDERWATER CONNECTOR SERIES

PRODUCTS FEATURE:

This series provides miniaturized underwater connectors that have been accepted for numerous subsea/offshore military, geophysical, and petrochemical applications. This miniature series has four (4) specific connector styles; "MC", "MF", "MO", and "MS". Each of these models have a smaller body size and mounting which provides designers with many space saving options.

Models are available in 1,2,3,4,5,6,8,10, and 12 contacts and are provided with in-line, bulkhead, and dummy versions. The body is neoprene rubber molded with the contacts rated for 7.5 & 15 amps at 220 VAC. This series is wet mateable.

SUBSEA MINIATURE SQUARE

Page [1] of [9] [Underwater Connector Series]

ST MINIATURE CIRCULAR MC

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ST MINIATURE OVAL MO

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ST MINIATURE SQUARE MS

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ST MINIATURE SQUARE MS

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ST MINIATURE SQUARE MS

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ST MINIATURE CIRCULAR FIELD INSTALLABLE

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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

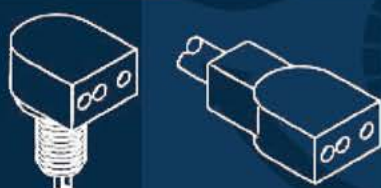
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U.S.I SUBSEA MINIATURE SQUARE



	1 2 3	1 2 3 4	1 2 3 4 5
 IN-LINE PLUG	MF3SM-1 (FAWL-3P-FS) DIMENSIONS INCH A .50 B .81 C .53 D .80 L 24.00	MF4SM-1 (FAWL-4P-FS) DIMENSIONS INCH A .50 B .81 C .53 D .80 L 24.00	MF5SM-1 (FAWL-5P-FS) DIMENSIONS INCH A .50 B .81 C .53 D .80 L 24.00
 BULKHEAD PLUG	MF3SM-BH (FAWL-3P-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E .53 F .93 L 12.00 "O"-RING 2-014	MF4SM-BH (FAWL-4P-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E .53 F .93 L 12.00 "O"-RING 2-014	MF5SM-BH (FAWL-5P-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E .53 F .93 L 12.00 "O"-RING 2-014



	3 2 1	3 2 1 4	3 2 1 4 5
 IN-LINE RECEPTACLE	MF3SF-1 (FAWL-3S-FS) DIMENSIONS INCH A .50 B .81 C 1.00 L 24.00	MF4SF-1 (FAWL-4S-FS) DIMENSIONS INCH A .50 B .81 C 1.00 L 24.00	MF5SF-1 (FAWL-5S-FS) DIMENSIONS INCH A .50 B .81 C 1.00 L 24.00
 BULKHEAD RECEPTACLE	MF3SF-BH (FAWL-3S-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E 1.00 "O"-RING 2-014	MF4SF-BH (FAWL-4S-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E 1.00 "O"-RING 2-014	MF5SF-BH (FAWL-5S-BC-R/A) DIMENSIONS INCH A .50 B .81 C 1.00 D 7/16-20UNF E 1.00 "O"-RING 2-014

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
 Tel: +1-714-229 9268 Fax: +1-714-229 9274
 E-Mail: info@underwatersystems.com
www.underwatersystems.com

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U.S.I ST MINIATURE CIRCULAR - MC



	MC2M-I DIMENSIONS INCH	MC3M-I DIMENSIONS INCH	MC4M-I DIMENSIONS INCH	MC6M-I DIMENSIONS INCH	MC8M-I DIMENSIONS INCH	MC12M-I DIMENSIONS INCH
	A ø.62 B .56 C .75 L 18.00	A ø.62 B .56 C .75 L 18.00	A ø.62 B .56 C .75 L 18.00	A ø1.00 B .56 C .75 L 18.00	A ø1.00 B .56 C .75 L 18.00	A ø1.25 B .56 C .75 L 18.00
	MC2M-BH DIMENSIONS INCH	MC3M-BH DIMENSIONS INCH	MC4M-BH DIMENSIONS INCH	MC6M-BH DIMENSIONS INCH	MC8M-BH DIMENSIONS INCH	MC12M-BH DIMENSIONS INCH
	A ø.62 B .56 C .75 D .50 E 7/16-20UNF F .75 L 12.00 "O"-RING 2-014	A ø.62 B .56 C .75 D .50 E 7/16-20UNF F .75 L 12.00 "O"-RING 2-014	A ø.62 B .56 C .75 D .50 E 7/16-20UNF F .75 L 12.00 "O"-RING 2-014	A ø1.00 B .56 C .75 D .50 E 1/2-20UNF F .75 L 12.00 "O"-RING 2-015	A ø1.00 B .56 C .75 D .50 E 1/2-20UNF F .75 L 12.00 "O"-RING 2-015	A ø1.25 B .56 C .75 D .50 E 3/4-16UNF F .75 L 12.00 "O"-RING 2-019



	MC2R-I DIMENSIONS INCH	MC3R-I DIMENSIONS INCH	MC4R-I DIMENSIONS INCH	MC6R-I DIMENSIONS INCH	MC8R-I DIMENSIONS INCH	MC12R-I DIMENSIONS INCH
	A ø.62 B 1.00 L 18.00	A ø.62 B 1.00 L 18.00	A ø.62 B 1.00 L 18.00	A ø1.00 B 1.00 L 18.00	A ø1.00 B 1.00 L 18.00	A ø1.25 B 1.00 L 18.00
	MC2R-BH DIMENSIONS INCH	MC3R-BH DIMENSIONS INCH	MC4R-BH DIMENSIONS INCH	MC6R-BH DIMENSIONS INCH	MC8R-BH DIMENSIONS INCH	MC12R-BH DIMENSIONS INCH
	A ø.62 B 1.00 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014	A ø.62 B 1.00 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014	A ø.62 B 1.00 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014	A ø1.00 B 1.00 C .50 D 1/2-20UNF E .75 L 12.00 "O"-RING 2-015	A ø1.00 B 1.00 C .50 D 1/2-20UNF E .75 L 12.00 "O"-RING 2-015	A ø1.25 B 1.00 C .50 D 3/4-16UNF E .75 L 12.00 "O"-RING 2-019





U.S.I ST MINIATURE OVAL - MO



	1 2 MO2M-1	1 2 MO2M-2	1 2 3 MO3M-1	1 2 3 MO3M-3
 IN-LINE PLUG	DIMENSIONS INCH A .31 B .69 C .56 D .48 L 24.00	DIMENSIONS INCH A .31 B .69 C .56 D .60 L 24.00	DIMENSIONS INCH A .31 B .69 C .56 D .48 L 24.00	DIMENSIONS INCH A .31 B .69 C .56 D .60 L 24.00
 BULKHEAD PLUG	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .56 H .98 L 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .56 H 1.11 L 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .56 H .98 L 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .56 H 1.11 L 18.00 "O"-RING 2-014

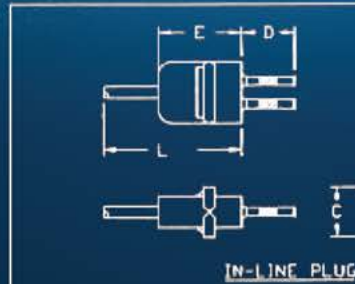


	2 1 MO2F-1	2 1 MO2F-2	3 2 1 MO3F-1	3 2 1 MO3F-3
 IN-LINE RECEPTACLE	DIMENSIONS INCH A .31 B .69 C .60 L 24.00	DIMENSIONS INCH A .31 B .69 C .60 L 24.00	DIMENSIONS INCH A .31 B .69 C .60 L 24.00	DIMENSIONS INCH A .31 B .69 C .60 L 24.00
 BULKHEAD RECEPTACLE	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .98 H 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G 1.11 H 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G .98 H 18.00 "O"-RING 2-014	DIMENSIONS INCH A .31 B .69 C .675 D .60 E .50, .75, 1.00 F 7/16-20UNF G 1.11 H 18.00 "O"-RING 2-014





U.S.I ST MINIATURE OVAL - MO

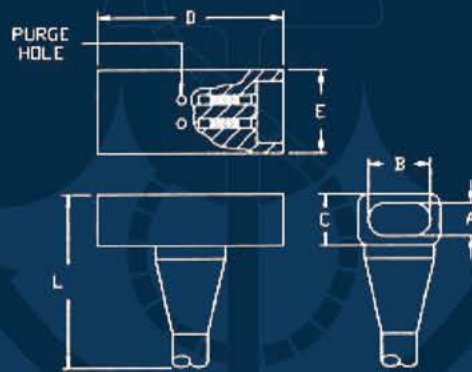


IN-LINE PLUG



MD2MF-1
DIMENSIONS
INCH

A .34
B .66
C .54
D .56
E .89
L 24.00

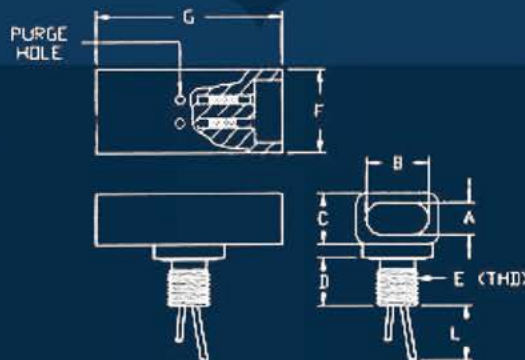


IN-LINE RECEPTACLE



MD4F-1-RA
DIMENSIONS
INCH

A .34
B .66
C .54
D 1.98
E .88
L 24.00



BULKHEAD RECEPTACLE

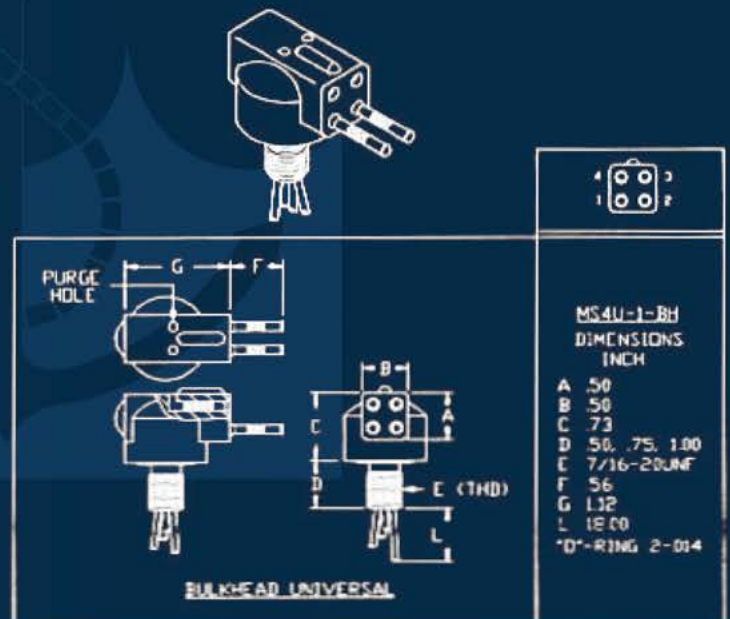
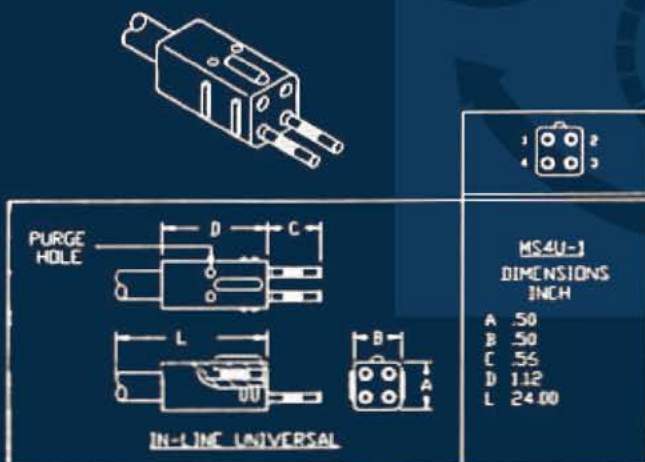
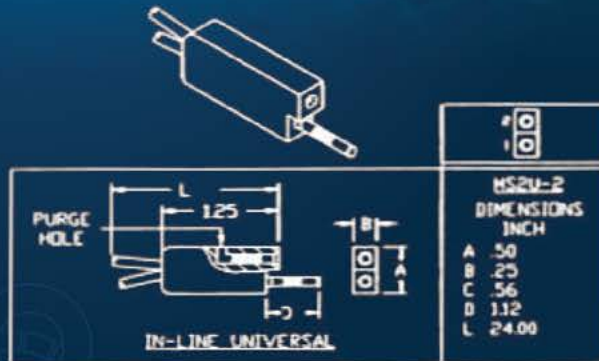
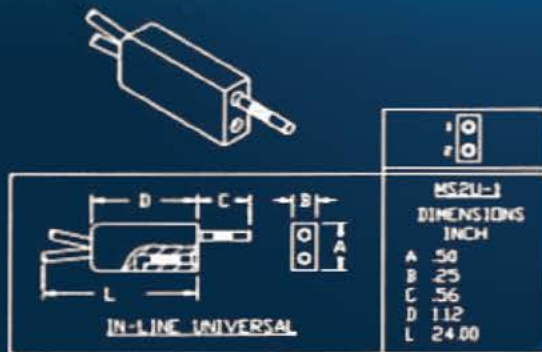
MD4F-1-BH
DIMENSIONS
INCH

A .34
B .66
C .54
D .50
E 7/16-20UNF
F .88
G 1.98
L 18.00
"D"-RING 2-014



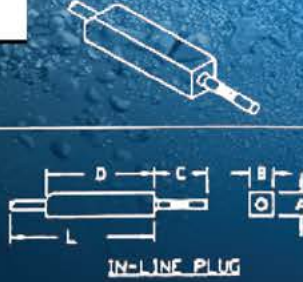


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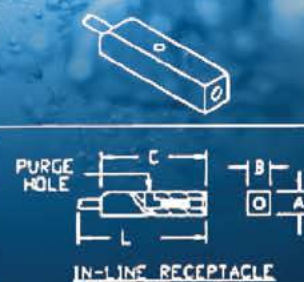


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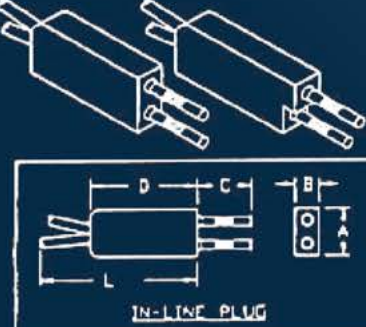
MS1M-1	
DIMENSIONS INCH	
A	.25
B	.25
C	.56
D	1.12
L	24.00

IN-LINE PLUG



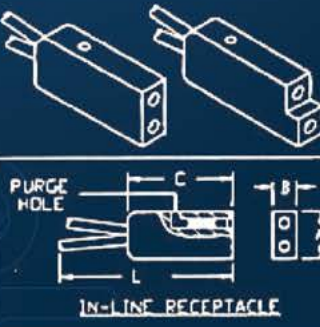
MS1F-1	
DIMENSIONS INCH	
A	.25
B	.25
C	1.12
L	24.00

IN-LINE RECEPTACLE



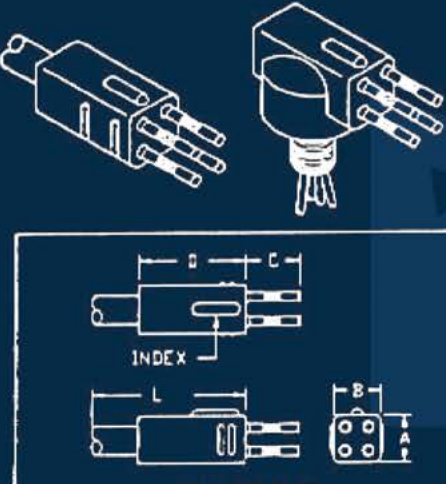
MS2M-1		MS2M-2	
DIMENSIONS INCH		DIMENSIONS INCH	
A	.50	A	.50
B	.25	B	.25
C	.56	C	.56
D	1.12	D	1.25
L	24.00	L	24.00

IN-LINE PLUG



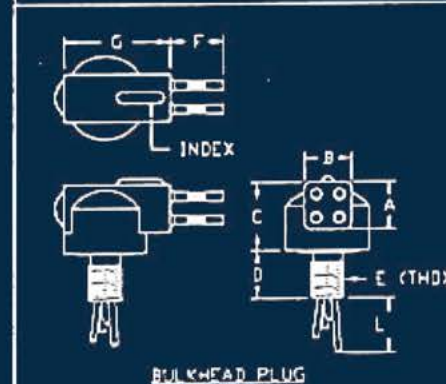
MS2F-1		MS2F-2	
DIMENSIONS INCH		DIMENSIONS INCH	
A	.50	A	.50
B	.25	B	.25
C	1.12	C	1.25
L	24.00	L	24.00

IN-LINE RECEPTACLE



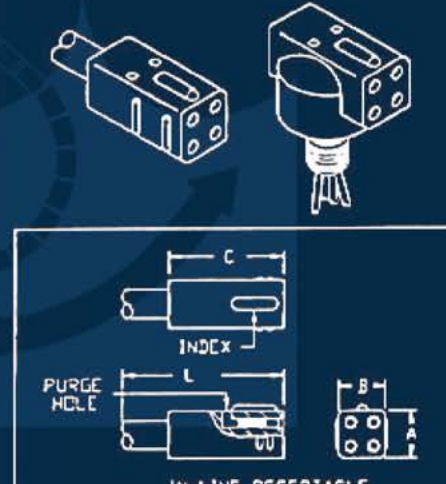
MS4M-1	
DIMENSIONS INCH	
A	.50
B	.50
C	.56
D	1.12
L	24.00

IN-LINE PLUG



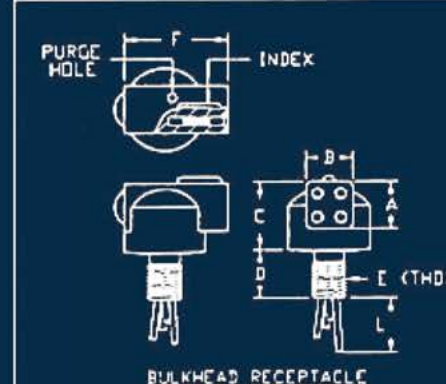
MS4M-1-BH	
DIMENSIONS INCH	
A	.50
B	.50
C	.73
D	.50, .75, 1.00
E	7/16-20UNF
F	.56
G	1.12
L	18.00
"D"-RING 2-014	

BULKHEAD PLUG



MS4F-1	
DIMENSIONS INCH	
A	.50
B	.50
C	1.12
L	24.00

IN-LINE RECEPTACLE



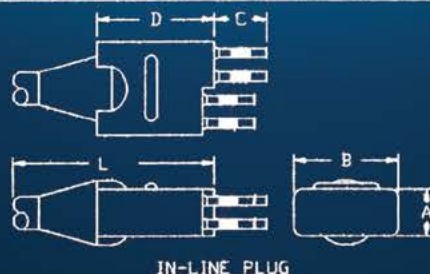
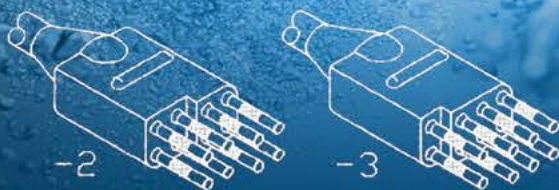
MS4F-1-BH	
DIMENSIONS INCH	
A	.50
B	.50
C	.73
D	.50, .75, 1.00
E	7/16-20UNF
F	1.12
L	18.00
"D"-RING 2-014	

BULKHEAD RECEPTACLE





U.S.I ST MINIATURE SQUARE - MS



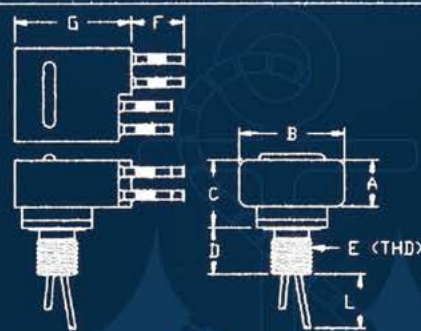
IN-LINE PLUG

MSBM-2
DIMENSIONS
INCH

A .50
B 1.00
C .56
D 1.16
L 24.00

MSBM-3
DIMENSIONS
INCH

A .50
B 1.00
C .56
D 1.16
L 24.00



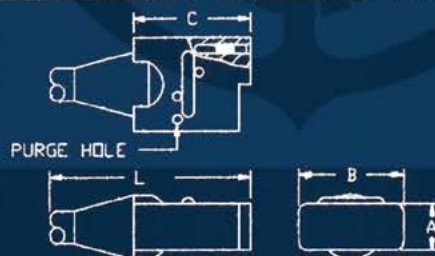
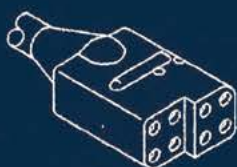
BULKHEAD PLUG

MSBM-2-BH
DIMENSIONS
INCH

A .50
B 1.00
C .72
D .50, .75, 1.00
E 7/16-20UNF
F .56
G 1.06
L 18.00
"O"-RING 2-014

MSBM-3-BH
DIMENSIONS
INCH

A .50
B 1.00
C .72
D .50, .75, 1.00
E 7/16-20UNF
F .56
G 1.06
L 18.00
"O"-RING 2-014



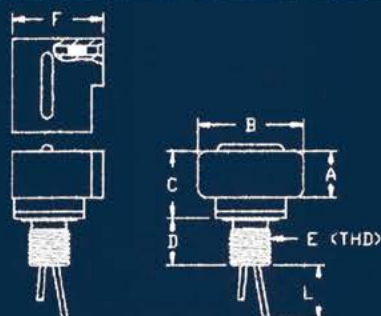
IN-LINE RECEPTACLE

MSBF-2
DIMENSIONS
INCH

A .50
B 1.00
C 1.16
L 24.00

MSBF-3
DIMENSIONS
INCH

A .50
B 1.00
C 1.16
L 24.00



BULKHEAD RECEPTACLE

MSBF-2-BH
DIMENSIONS
INCH

A .50
B 1.00
C .72
D .50, .75, 1.00
E 7/16-20UNF
F 1.06
L 18.00
"O"-RING 2-014

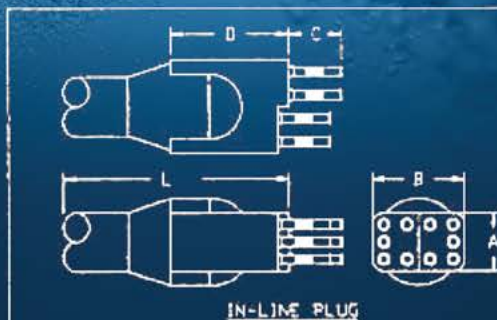
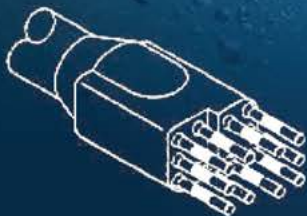
MSBF-3-BH
DIMENSIONS
INCH

A .50
B 1.00
C .72
D .50, .75, 1.00
E 7/16-20UNF
F 1.06
L 18.00
"O"-RING 2-014



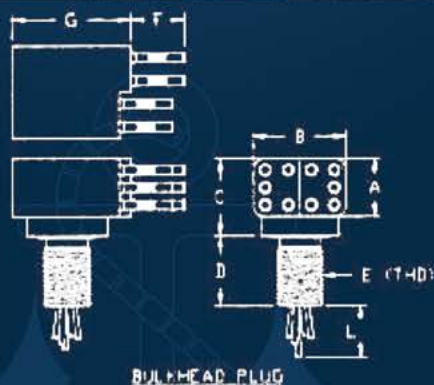


U.S.I ST MINIATURE SQUARE - MS



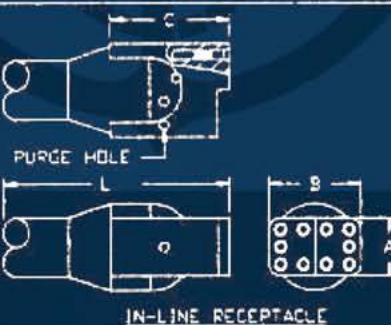
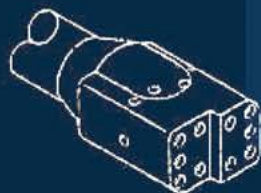
MS10M-2
DIMENSIONS
INCH

A .62
B 1.00
C .56
D .125
L 24.00



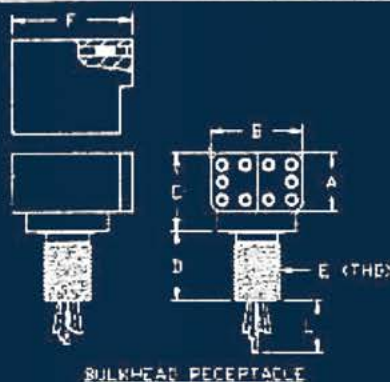
MS10M-2-BH
DIMENSIONS
INCH

A .62
B 1.00
C .62
D .50, .75, 1.00
E 1/2-20UNF
F .56
G .125
L 18.00
*O-RING 2-014



MS10F-2
DIMENSIONS
INCH

A .62
B 1.00
C .125
L 24.00



MS10F-2-BH
DIMENSIONS
INCH

A .62
B 1.00
C .62
D .50, .75, 1.00
E 1/2-20UNF
F .56
L 18.00
*O-RING 2-014

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E-Mail: info@underwatersystems.com
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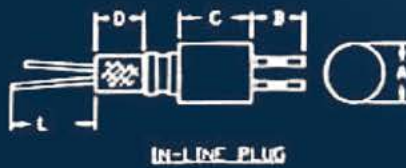
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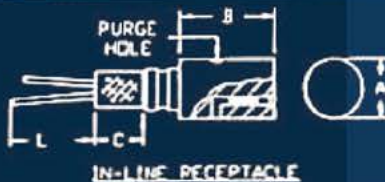
U.S.I ST MINIATURE CIRCULAR FIELD INSTALLABLE



MC2H-DM DIMENSIONS INCH	MC3H-DM DIMENSIONS INCH	MC4H-DM DIMENSIONS INCH	MC6H-DM DIMENSIONS INCH	MC8H-DM DIMENSIONS INCH	MC12H-DM DIMENSIONS INCH
A ϕ .62	A ϕ .62	A ϕ .62	A ϕ 1.00	A ϕ 1.00	A ϕ 1.25
B .56	B .56	B .56	B .56	B .56	B .56
C .75	C .75	C .75	C .75	C .75	C .75
D .63	D .63	D .63	D .63	D .63	D .63
L 2.73	L 2.73	L 2.73	L 2.73	L 2.73	L 2.73



MC2F-DM DIMENSIONS INCH	MC3F-DM DIMENSIONS INCH	MC4F-DM DIMENSIONS INCH	MC6F-DM DIMENSIONS INCH	MC8F-DM DIMENSIONS INCH	MC12F-DM DIMENSIONS INCH
A ϕ .62	A ϕ .62	A ϕ .62	A ϕ 1.00	A ϕ 1.00	A ϕ 1.25
B 1.00	B 1.00	B 1.00	B 1.00	B 1.00	B 1.00
C .63	C .63	C .63	C .63	C .63	C .63
L 2.73	L 2.73	L 2.73	L 2.73	L 2.73	L 2.73





JUNCTION BOXES NEOPRENE MOLDED

PRODUCTS FEATURE:

Junction boxes are available in a variety of design configurations providing the user with a wide range of options to fit nearly every unique subsea application. Junction box housings, capable of operating at full ocean depth, can be designed for either pressure resisting or pressure balanced concepts and can incorporate a variety of wet-mateable underwater connectors.

The junction boxes are provided utilizing molded neoprene rubber, polyurethane, or 316 SST metal housing, and can be provided with oil-filled pressure balanced features. A wide range of cable, or underwater connector input/output options, also are available various mounting concepts.

JUNCTION BOXES NEOPRENE MOLDED

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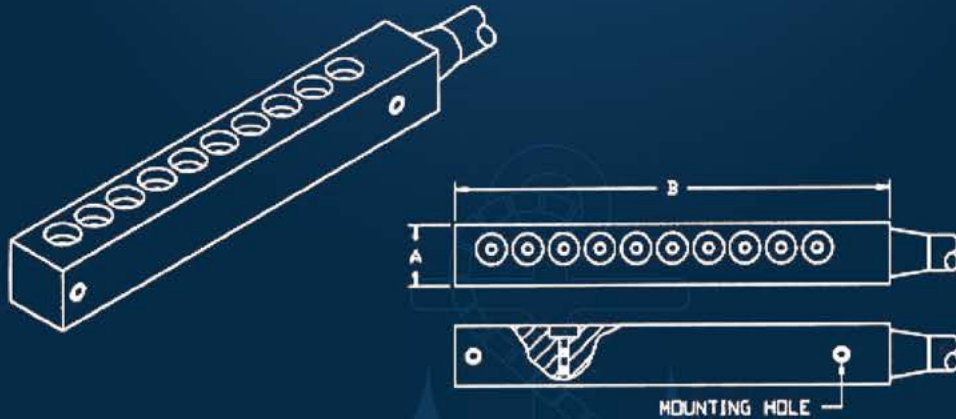
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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
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U.S.I JUNCTION BOXES NEOPRENE-MOLDED



■ MATING CONNECTORS: STF2CH-1 & STF2CH-2

MJB-12	MJB-14	MJB-16	MJB-18	MJB-20
DIMENSIONS INCH	DIMENSIONS INCH	DIMENSIONS INCH	DIMENSIONS INCH	DIMENSIONS INCH
A 1.25 B 9.00	A 1.25 B 9.00	A 1.25 B 9.00	A 1.25 B 9.00	A 1.25 B 9.00
CONDUCTORS: 2 POLES X 6 MODULES	CONDUCTORS: 2 POLES X 7 MODULES	CONDUCTORS: 2 POLES X 8 MODULES	CONDUCTORS: 2 POLES X 9 MODULES	CONDUCTORS: 2 POLES X 10 MODULES





Micro Mini Underwater Connector Series

PRODUCTS FEATURE:

Many of the products in this catalog are capable of being mated in under water with electrical power de-energized. Precision interference fit between contacts and neoprene-neoprene interface ensures waterproof integrity when correctly installed and maintained. Bulkhead connectors are molded directly to the face of all threaded fittings to provide maximum strength.

PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I.

MICRO MINI SQUARE

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MICRO MINI CIRCULAR CONNECTORS

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
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U.S.I MICRO - MINI SQUARE



<p>IN-LINE PLUG</p>	<p>MM3SM DIMENSIONS INCH</p> <p>A .62 B .37 C .37 D .50 L 18.00</p>	<p>MM6SM DIMENSIONS INCH</p> <p>A .62 B .37 C .37 D .50 L 18.00</p>	<p>MM8SM DIMENSIONS INCH</p> <p>A .87 B .37 C .50 D .50 L 18.00</p>	<p>MM16SM DIMENSIONS INCH</p> <p>A .87 B .77 C .50 D .50 L 18.00</p>



<p>IN-LINE RECEPTACLE</p>	<p>MM3SF DIMENSIONS INCH</p> <p>A .62 B .37 C .64 D .50 L 18.00</p>	<p>MM6SF DIMENSIONS INCH</p> <p>A .62 B .37 C .64 D .50 L 18.00</p>	<p>MM8SF DIMENSIONS INCH</p> <p>A .87 B .37 C .50 D .50 L 18.00</p>	<p>MM16SF DIMENSIONS INCH</p> <p>A .87 B .77 C .50 D .50 L 18.00</p>



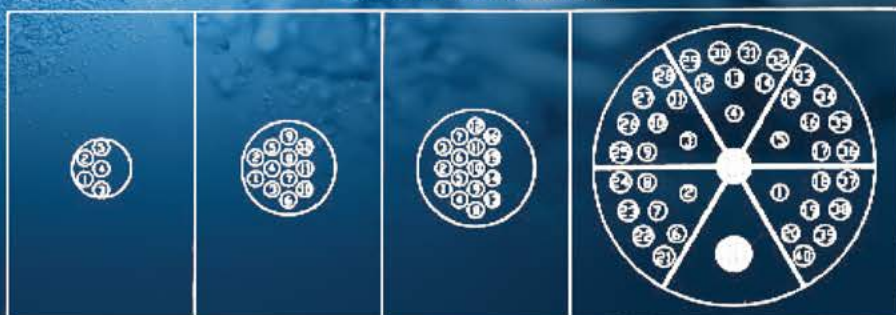
<p>JUNCTION BOX</p>	<p>MM36J DIMENSIONS INCH</p> <p>A .10 B .63 C 1.00 D 1.17 E 1.51 F 2.12 G 1.92 L 24.00</p>
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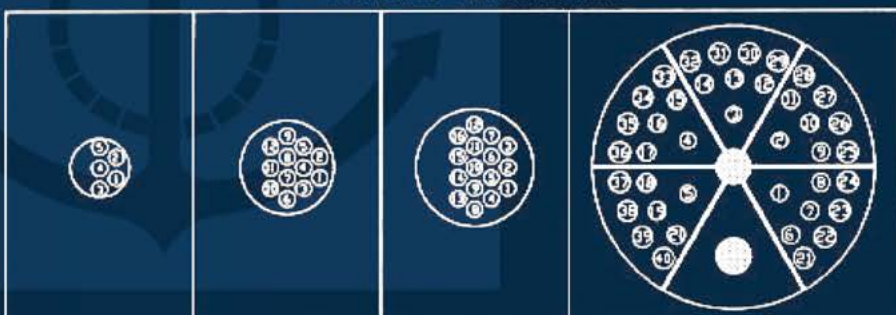
U.S.I MICRO - MINI CIRCULAR

(● INDICATE POLARIZING PIN)



<p>IN-LINE PLUG</p>	<p>MM5CM-1 DIMENSIONS INCH</p> <p>A .62 B .75 L 18.00</p>	<p>MM12CM-1 DIMENSIONS INCH</p> <p>A .100 B .75 L 18.00</p>	<p>MM16CM-1 DIMENSIONS INCH</p> <p>A .125 B .75 L 18.00</p>	<p>MM40CM-1 DIMENSIONS INCH</p> <p>A .200 B 1.28 L 18.00</p>
<p>BULKHEAD PLUG</p>	<p>MM5CM-BH DIMENSIONS INCH</p> <p>A .62 B .75 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014</p>	<p>MM12CM-BH DIMENSIONS INCH</p> <p>A .100 B .75 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014</p>	<p>MM16CM-BH DIMENSIONS INCH</p> <p>A .125 B .75 C .50 D 1/2-20UNF E .87 L 12.00 "O"-RING 2-015</p>	<p>MM40CM-BH DIMENSIONS INCH</p> <p>A .200 B 1.28 C 1.00 D 1-14UNS L 12.00 "O"-RING 2-122</p>

(● INDICATE POLARIZING HOLE)



<p>IN-LINE RECEPTACLE</p>	<p>MM5CF-1 DIMENSIONS INCH</p> <p>A .62 B 1.12 L 18.00</p>	<p>MM12CF-1 DIMENSIONS INCH</p> <p>A .100 B 1.12 L 18.00</p>	<p>MM16CF-1 DIMENSIONS INCH</p> <p>A .125 B 1.12 L 18.00</p>	<p>MM40CF-1 DIMENSIONS INCH</p> <p>A .200 B 1.28 L 18.00</p>
<p>BULKHEAD RECEPTACLE</p>	<p>MM5CF-BH DIMENSIONS INCH</p> <p>A .62 B 1.12 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014</p>	<p>MM12CF-BH DIMENSIONS INCH</p> <p>A .100 B 1.12 C .50 D 7/16-20UNF E .75 L 12.00 "O"-RING 2-014</p>	<p>MM16CF-BH DIMENSIONS INCH</p> <p>A .125 B 1.12 C .50 D 1/2-20UNF E .87 L 12.00 "O"-RING 2-015</p>	<p>MM40CF-BH DIMENSIONS INCH</p> <p>A .200 B 1.28 C 1.00 D 1-14UNS L 12.00 "O"-RING 2-122</p>

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REV. A SECTION 5-2



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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
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E-Mail: info@underwatersystems.com
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PENETRATOR SERIES

PRODUCTS FEATURE:

Underwater systems has vast experience in the design and construction of custom cable assemblies and hull or bulkhead mounting penetrators. We specialize in the over-mold termination of connectors to numerous cable materials such as; neoprene, hypalon, polyurethane, polyethylene, viton, pvc and hydril. The cable assemblies can be provided in any length, number of conductors, single or multiple breakouts, and coil cords. The penetrators can be provided to operate at full ocean depth and are available in a wide range of materials and mounting configurations.

PENETRATORS- PAGE
[1] of [1]



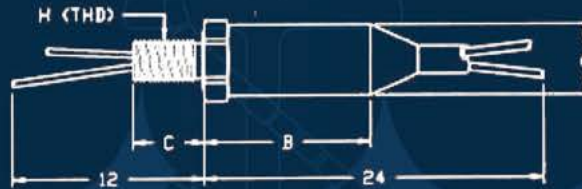
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10603 Progress way, Cypress CA 90630
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U.S.I PENETRATOR



PE-202 DIMENSIONS INCH	PE-203 DIMENSIONS INCH	PE-204 DIMENSIONS INCH	PE-206 DIMENSIONS INCH	PE-208 DIMENSIONS INCH	PE-212 DIMENSIONS INCH
A .75	A .87	A .87	A .112	A .112	A .125
B 1.75	B 2.19	B 2.19	B 2.37	B 2.37	B 3.12
C .50	C .50	C .50	C .50	C .50	C .87
D 7/16-20UNF	D 5/8-18UNF	D 5/8-18UNF	D 7/8-14UNF	D 7/8-14UNF	D 1-14UNF
E .75	E 1.12	E 1.12	E 1.25	E 1.25	E 1.50
#16 AWG	#16 AWG	#18 AWG	#18 AWG	#18 AWG	#18 AWG
"O"-RING 2-014	"O"-RING 2-019	"O"-RING 2-019	"O"-RING 2-021	"O"-RING 2-021	"O"-RING 2-122

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SECTION 11-1



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SYSTEMS INC.**

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E-Mail: info@underwatersystems.com
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SEALOC UNDERWATER CONNECTOR SERIES

PRODUCTS FEATURE:

This series is ideal for a wide range of underwater camera, lighting, and instrumentation applications; also known in the industry as the "NELSON" connector. 1,2,3, & 4 contact versions with both in line, bulkhead, and dummy connector configurations are available. Neoprene rubber body is directly molded to the cable and is provided with silver plated # 16 AWG contacts and rated to 20,000 PSI.

SEALOC CONNECTORS

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SEALOC CONNECTORS

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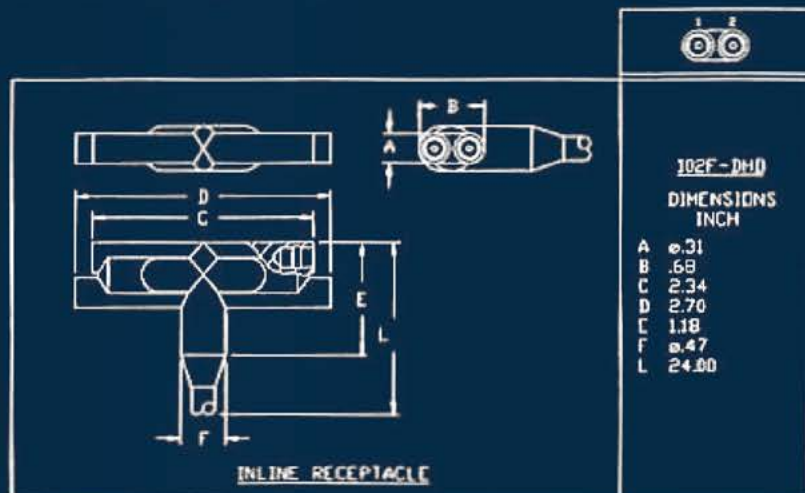
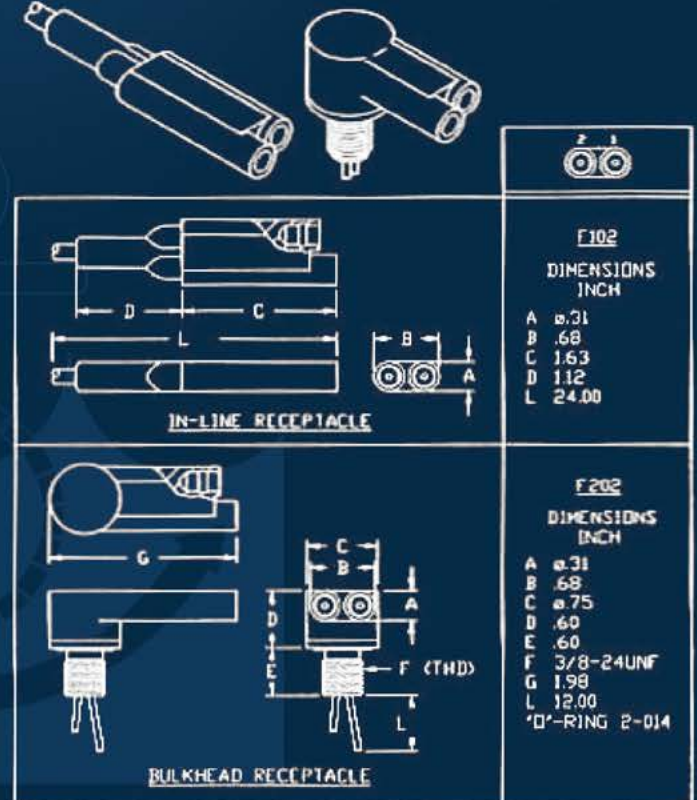
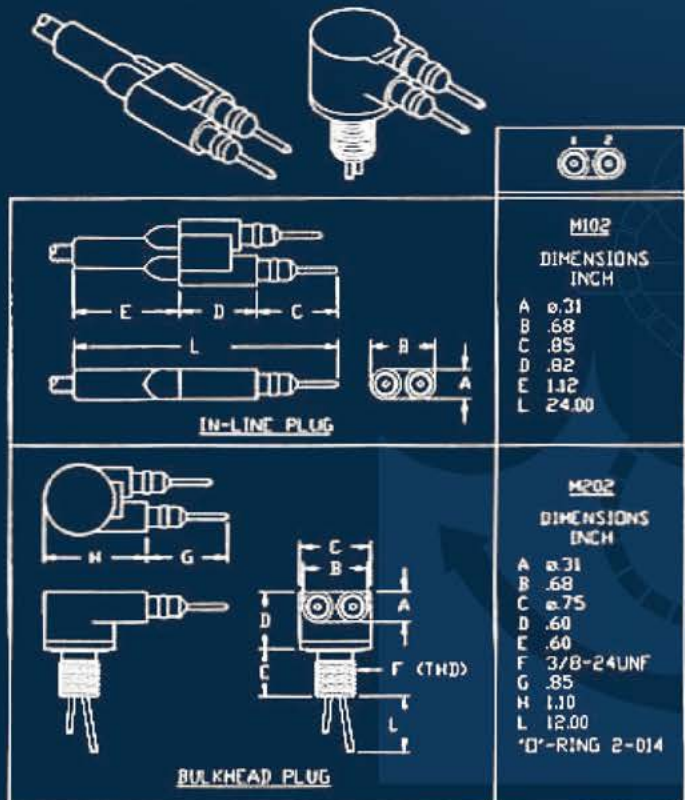
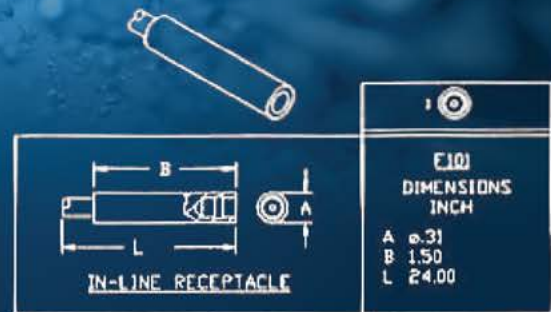
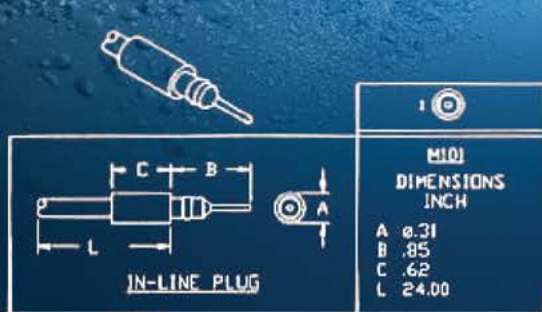
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U.S.I. SEALOC





U.S.I SEALOC



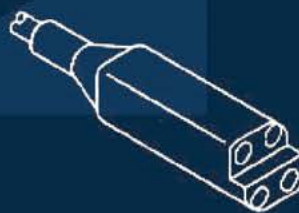
 IN-LINE PLUG	 M103 DIMENSIONS INCH A .70 B .70 C .85 D .80 L 24.00	 M103-2 DIMENSIONS INCH A .70 B .70 C .85 D .95 L 24.00



 IN-LINE RECEPTACLE	 F103 DIMENSIONS INCH A .70 B .70 C 1.65 L 24.00	 F103-2 DIMENSIONS INCH A .70 B .70 C 1.84 L 24.00



 IN-LINE PLUG	 M104 DIMENSIONS INCH A .70 B .70 C .85 D .95 L 24.00



 IN-LINE RECEPTACLE	 F104 DIMENSIONS INCH A .70 B .70 C 1.80 L 24.00





MAGNETIC SWITCH

PRODUCTS FEATURE:

Proximity switches are designed to be very rugged and operate at an ocean depth of 10,000 feet. Each standard switch is capable of operating at 0.5 amps @ 200 VDC, with 3.0 amps available upon request. The switch is constructed using a high quality Rhodium contact and is totally protected from the environment by neoprene overmolding.

Various mounting and output options are available. Diver actuated proximity switches are also available in both rotary and push-button versions utilizing the same rugged construction and proven technology.

PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I.

MAGNETIC SWITCHES

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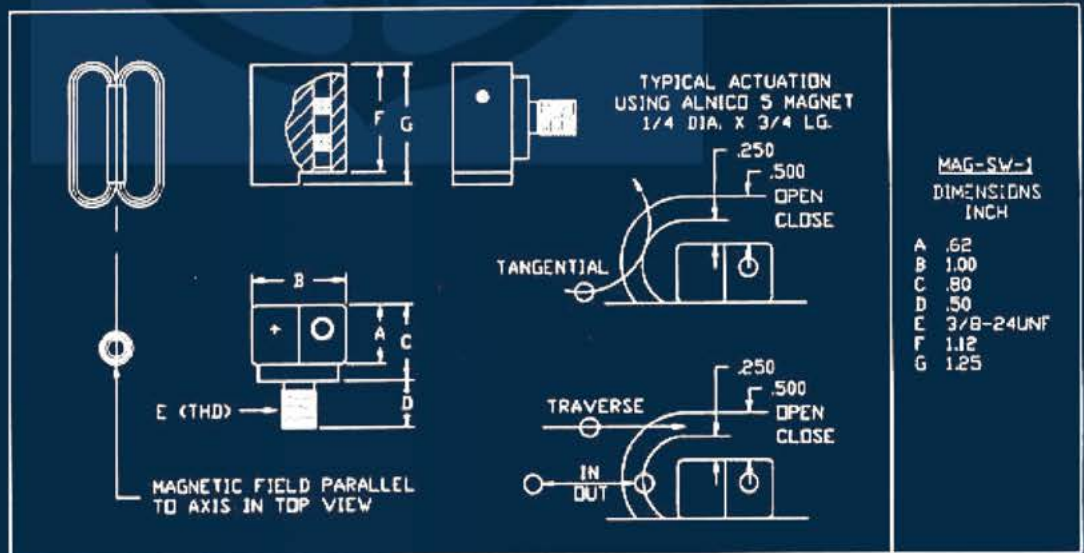
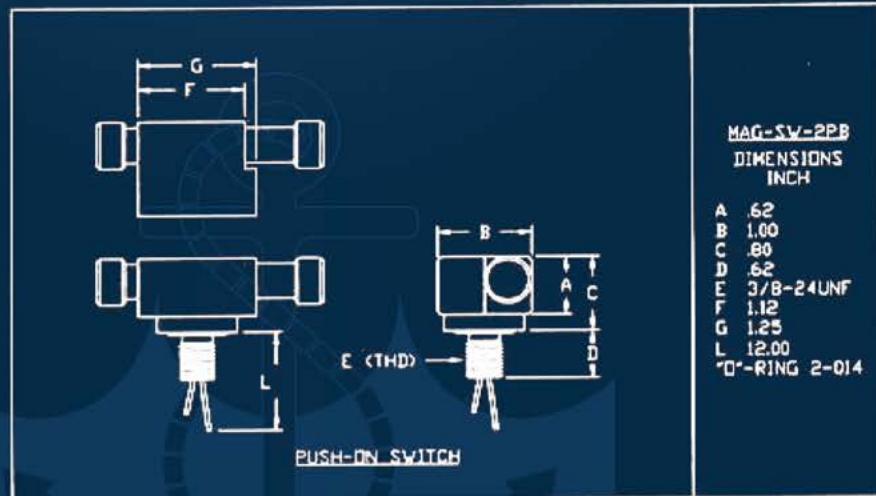
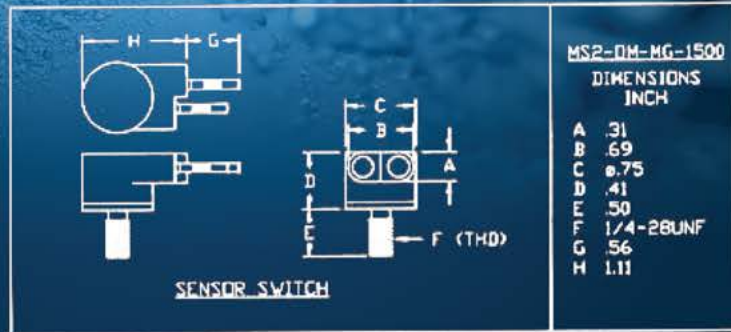
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Tel: +1-714-229 9268 Fax: +1-714-229 9274
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U.S.I. MAGNETIC SWITCH





LOCKING SLEEVES

PRODUCTS FEATURE:

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PRESSURE RATINGS:

All In-Line Connectors and Bulkhead Connectors are rated for 10,000 P.S.I.

LOCKING SLEEVES

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LOCKING SLEEVES

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**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
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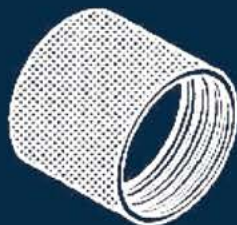


U.S.I LOCKING SLEEVES



MALE LOCKING SLEEVE

<u>US8TMS-4</u>	<u>USED ON</u> STF1CFF-1 STF2CFF-1 STF1CFF-BH STF2CFF-BH	<u>US8TMS-6</u>	<u>USED ON</u> STF1CF-1 STF2CF-2
DIMENSION INCHES A. 1.32 B. 1.37		DIMENSION INCHES A. 0.87 B. 1.75	
<u>US8TMB-2</u>	<u>USED ON</u> 1" DIA. FEMALE ST AND SB CIRCULAR CONNECTORS	<u>US8TMB-4</u>	<u>USED ON</u> 1" DIA. FEMALE ST AND SB CIRCULAR CONNECTORS WITH FLANGE
DIMENSION INCHES A. 1.80 B. 1.31		DIMENSION INCHES A. 1.80 B. 1.50	
<u>US8TM10-2</u>	<u>USED ON</u> 1.25" DIA. FEMALE ST AND SB CIRCULAR CONNECTORS	<u>US8TM10-4</u>	<u>USED ON</u> 1.25" DIA. FEMALE ST AND SB CIRCULAR CONNECTORS WITH FLANGE
DIMENSION INCHES A. 1.80 B. 1.23		DIMENSION INCHES A. 1.80 B. 1.50	
<u>US8TM16-2</u>	<u>USED ON</u> STH3CF-1 STH4CF-1 STH3CF-BH STH4CF-BH	<u>US8TM20-2</u>	<u>USED ON</u> STL3CF-1 STL4CF-1 STL3CF-BH STL4CF-BH
DIMENSION INCHES A B		DIMENSION INCHES A B	
<u>US8TM12-6</u>	<u>USED ON</u> 1.60" DIA. FEMALE SB CIRCULAR CONNECTORS		
DIMENSION INCHES A. 2.38 B. 1.30			



FEMALE LOCKING SLEEVE

<u>US8TF5-4</u>	<u>USED ON</u>	<u>US8TF5-6</u>	<u>USED ON</u>
DIMENSION INCHES	STF1CMF-1 STF2CMF-1 STF1CMF-BH STF2CMF-BH	DIMENSION INCHES	STE1CM-1 STF2CM-2
A 1.32 B 1.96		A 0.87 B 2.25	

<u>US8TF8-2</u>	<u>USED ON</u>	<u>US8TF8-4</u>	<u>USED ON</u>	<u>US8TF8-6</u>	<u>USED ON</u>
DIMENSION INCHES	1" DIA. MALE ST AND SB CIRCULAR CONNECTORS	DIMENSION INCHES	1" DIA. MALE ST AND SB CIRCULAR CONNECTORS WITH FLANGE	DIMENSION INCHES	1" DIA. MALE ST AND SB CIRCULAR CONNECTORS
A 1.80 B 1.51		A 1.80 B 2.10		A 1.25 B 1.41	

<u>US8TF10-2</u>	<u>USED ON</u>	<u>US8TF10-4</u>	<u>USED ON</u>	<u>US8TF10-6</u>	<u>USED ON</u>
DIMENSION INCHES	1.25" DIA. MALE ST AND SB CIRCULAR CONNECTORS	DIMENSION INCHES	1.25" DIA. MALE ST AND SB CIRCULAR CONNECTORS WITH FLANGE	DIMENSION INCHES	1.25" DIA. MALE ST AND SB CIRCULAR CONNECTORS
A 1.80 B 1.41		A 1.80 B 2.00		A 1.55 B 1.41	

<u>US8TF16-2</u>	<u>USED ON</u>	<u>US8TF20-2</u>	<u>USED ON</u>	<u>US8TF12-6</u>	<u>USED ON</u>
DIMENSION INCHES	STH3CM-1 STH4CM-1 STH3CM-BH STH4CM-BH	DIMENSION INCHES	STL3CM-1 STL4CM-1 STL3CM-BH STL4CM-BH	DIMENSION INCHES	1.60" DIA. MALE SB CIRCULAR CONNECTORS
A B		A B		A 2.38 B 1.65	

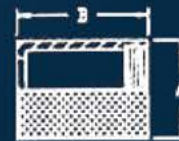
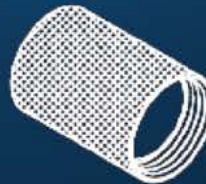




U.S.I LOCKING SLEEVES



MALE LOCKING SLEEVE



FEMALE LOCKING SLEEVE

<u>USBMLS-1</u>	<u>USED ON</u>	<u>USED ON</u>
DIMENSIONS	VPC-1-MP	VPC-1-MS
INCH	VPC-2-MP	VPC-2-MS
A #1.00	VPC-3-MP	VPC-3-MS
B .59	VPC-4-MP	VPC-4-MS
	VPC-1-MP-DH	VPC-1-MS-DH
	VPC-2-MP-DH	VPC-2-MS-DH
	VPC-3-MP-DH	VPC-3-MS-DH
	VPC-4-MP-DH	VPC-4-MS-DH

<u>USBFLS-1</u>	<u>USED ON</u>	<u>USED ON</u>
DIMENSIONS	VPC-1-FS	VPC-1-FP
INCH	VPC-2-FS	VPC-2-FP
A #1.00	VPC-3-FS	VPC-3-FP
B 1.42	VPC-4-FS	VPC-4-FP
	VPC-1-FS-DH	VPC-1-FP-DH
	VPC-2-FS-DH	VPC-2-FP-DH
	VPC-3-FS-DH	VPC-3-FP-DH
	VPC-4-FS-DH	VPC-4-FP-DH



FEMALE LOCKING SLEEVE

<u>USBTF2-6</u>	<u>USED ON</u>
DIMENSIONS	F101
INCH	
A #.62	
B 1.75	





SEAMAX

UNDERWATER CONNECTORS

INTRODUCTION

DESIGN
FEATURES

CAPABILITIES



TYPE
ER

TYPE
ERPB

TYPE
EC



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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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SEAMAX

UNDERWATER CONNECTORS

INTRODUCTION:

For more than a decade, Connector Systems has been dedicated to serving the need for high quality electrical connectors in an emerging underwater equipment industry. Our connector engineers, backed by seventy years of cable manufacturing experience, have engineered connectors and cable assemblies for the most demanding underwater applications. From deep sea research to undersea mining, Connector Systems has met the needs of the industry with both a standard line of products and a host of custom engineered systems.

Today our manufacturing facilities are among the most modern in the connector industry. Connector Systems engineers connectors and hull penetrators for any marine application. We build connector parts in our own machine shops. We develop proprietary molding compounds in our own laboratories, and we custom-mold cable assemblies to any specification.

In this catalog, Connector Systems presents the SEAMAX line of underwater connectors. There are more than 200 standard connectors. All are built to withstand the corrosive effects of sea and estuarine waters. Many are designed to withstand working pressures of thousands of feet of depth, reliably, time after time. SEAMAX connectors meet the needs for power, communications, and control functions in undersea research systems, submersible vehicles, naval weapons systems and most other subsea applications. When there are unique requirements, our engineers are prepared to study your application and to develop connectors and cable assemblies to meet your special needs.



OIL FILLED CABLE ASSEMBLY

Connectors for all filled cables offer Extraordinary reliability, and yet they may be easily assembled to cable on site. The assembly shown here will mate with assemblies using **SEAMAX** non-oil filled connectors. Shown here are connector types ERPB 3406-16S and ERPB 3401-16P



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SEAMAX

UNDERWATER CONNECTORS

DESIGN FEATURES:

Underwater Systems has incorporated numerous unique design features into the SEAMAX series of underwater connectors. SEAMAX connectors provide reliable electrical and pressure performance similar to that of the best glasssealed designs at a fraction of the cost.

All SEAMAX connectors use rugged metal shells, precisely machined from single pieces of high grade stainless steel or aluminum. Using one high pressure molding operation, Underwater Systems molds pressure seals and contact pins into the connector with high density neoprene rubber. Proprietary thermosetting compounds are then used to permanently encapsulate terminated wiring and to reinforce the pressure sealing system.

1. Connector shells are machined from single pieces of stainless steel or aluminum (anodized).
2. Keys are integral with connector shells. Type ER connectors use molded rubber keys. Types EB and EC use machined keys.
3. Contacts of ER and EB connectors are molded into insulators to ensure water-blocked construction.
4. Panel-mounted connectors are supplied with Teflon® insulated pigtails.
5. Connector backshells are vulcanized to high grade underwater cable on in-line connectors.
6. Contacts are high conductivity copper alloy.
7. Individual contact seals on ER and EB connectors provide electrical integrity even when insert faces are wet.

DESIGN DATA:

The SEAMAX series of connectors are engineered to the most exacting quality standards to ensure an extended service life in undersea environmental conditions. Connectors are designed to exceed all standards of MIL-C- 24231. Connectors also meet many requirements of MIL-C- 24217. Below is a brief summary of mechanical, environmental, and electrical design data.

STANDARD CONSTRUCTION MATERIALS:

SHELLS

Passivated stainless steel, or anodized aluminum

COUPLING NUTS

Aluminum bronze or anodized aluminum

INSULATOR

Neoprene rubber

CONTACTS

High conductivity copper alloy

SEAMAX connectors are constructed in four primary designs. They are the following:

TYPE ER These economical connectors are identified by their prominent rubber keys and keyways. These connectors have excellent contact density. Connectors may be mated while they are wet, although they should not be mated while submerged.

TYPE EB These connectors are identified by the single machined keys and keyways. Type ER connectors offer good contact density, greater resistance to rough handling, and improved pressure performance. Connectors may be mated while faces are wet, but they should not be mated while submerged.

TYPES ERPB & EBPB These connectors are engineered for construction into oil-filled, pressure balanced cable assemblies. Connectors have metal backshells which include an oil-fill port. These connectors can be conveniently field assembled with cable and oil-fill tubing.

TYPES EC These connectors are designed to meet the need for high density contact arrangements in underwater connectors. They are ideal for medium duty applications, and they are suitable for use in depths of 2,500 feet

ENVIRONMENTAL DESIGN

HYDROSTATIC PRESSURE

Connectors have been designed to withstand the following pressures:

CONNECTOR TYPES ER AND EB

Mated - 10,000 psi Unmated - 10,000 psi

TYPE EC

Mated - 1,200 psi Unmated - Not recommended

OIL-FILLED CONNECTORS, TYPES ERPB & EBPB

Only panel mounted connectors are designed to withstand pressure differentials.
Mated -10,000 psi Unmated -10,000 psi

OPERATING TEMPERATURES - -50oC to +90oC

THERMAL SHOCK -40oC to +75oC

CORROSION RESISTANCE - Exceeds MIL-STD 202, Method 101, Condition D

VIBRATION - Meets Type I requirements of MIL-STD-167-1

NUMBER OF CONTACTS - 1 to 41

INSULATION RESISTANCE - Better than 2,000 Megohms

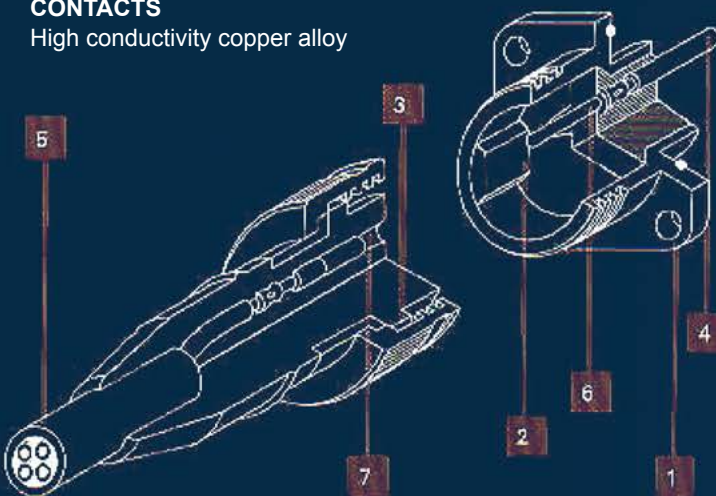
DIELECTRIC WITHSTANDING VOLTAGE:

Type ER - 2300 volts rms

Type EB - 2300 volts rms

Type EC - 1500 volts rms

VOLTAGE RATING - 600 volts, unless otherwise indicated



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SEAMAX

UNDERWATER CONNECTORS

TYPE ER WITH MOLDED KEY INSERTS

INSERT ARRANGEMENTS

All insert markings and insert arrangements shown in this catalog are for the face view of the pin inserts. Socket insert arrangements would be represented by mirror images of the arrangements shown.

INSERT SIZES

Representative drawings appearing in this catalog are not actual sizes and some drawings are not to actual scale.

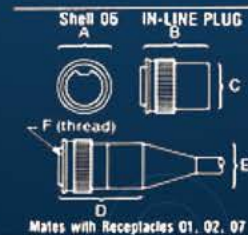
DIMENSIONS

Dimensions shown in this catalog are subject to revision without notice and they are not intended for detailed engineering or inspection purposes.

CONNECTOR CAPS

All SEAMAX connectors and cable assemblies may be ordered with caps to provide protection for unmated connectors. Connector Systems offers molded rubber caps and pressure proof steel or aluminum caps. Molded rubber caps are designed to shield contacts from environmental contaminants, and they should not be used under pressure. All caps may be ordered with attaching lanyards.

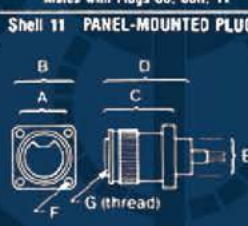
Connectors with size 20 shells are supplied with V-threads.



Mates with Receptacles 01, 02, 07



Mates with Plugs 06, 06R, 11



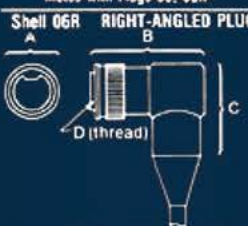
Mates with Receptacle 01



Mates with Plugs 06, 06R



Mates with Plugs 06, 06R



Mates with Receptacles 01, 02, 07

Shell Size 20

1 No. 16 (5,000 v)	3 No. 16 (600 v)	4 No. 16 (600 v)	6 No. 16 (500 v)
CONTACTS-SOCKETS Part #ER 2006-1S	CONTACTS-SOCKETS Part #ER 2006-3S	CONTACTS-SOCKETS Part #ER 2006-4S	CONTACTS-SOCKETS Part #ER 2006-6S
DIMENSIONS in. mm. A 1.50 38.1 B 2.30 58.4 C 1.08 27.4 D 2.60 66.0 E 1.25 31.8 F 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 2.30 58.4 C 1.08 27.4 D 2.60 66.0 E 1.25 31.8 F 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 2.30 58.4 C 1.08 27.4 D 2.60 66.0 E 1.25 31.8 F 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 2.30 58.4 C 1.08 27.4 D 2.60 66.0 E 1.25 31.8 F 1 1/4-18
<i>When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.</i>			
CONTACTS-PINS Part #ER 2001-1P	CONTACTS-PINS Part #ER 2001-3P	CONTACTS-PINS Part #ER 2001-4P	CONTACTS-PINS Part #ER 2001-6P
DIMENSIONS in. mm. A 2.30 58.4 B 1.08 27.4 C 2.60 66.0 D 1.25 31.8 E 1 1/4-18	DIMENSIONS in. mm. A 2.30 58.4 B 1.08 27.4 C 2.60 66.0 D 1.25 31.8 E 1 1/4-18	DIMENSIONS in. mm. A 2.30 58.4 B 1.08 27.4 C 2.60 66.0 D 1.25 31.8 E 1 1/4-18	DIMENSIONS in. mm. A 2.30 58.4 B 1.08 27.4 C 2.60 66.0 D 1.25 31.8 E 1 1/4-18
<i>When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.</i>			
CONTACTS-SOCKETS Part #ER 2011-1S	CONTACTS-SOCKETS Part #ER 2011-3S	CONTACTS-SOCKETS Part #ER 2011-4S	CONTACTS-SOCKETS Part #ER 2011-6S
DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-18
<i>This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.</i>			
CONTACTS-PINS Part #ER 2002-1P	CONTACTS-PINS Part #ER 2002-3P	CONTACTS-PINS Part #ER 2002-4P	CONTACTS-PINS Part #ER 2002-6P
DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-18	DIMENSIONS in. mm. A 1.25 31.8 B 1.75 44.5 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-18
<i>This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.</i>			
CONTACTS-PINS Part #ER 2007-1P	CONTACTS-PINS Part #ER 2007-3P	CONTACTS-PINS Part #ER 2007-4P	CONTACTS-PINS Part #ER 2007-6P
DIMENSIONS in. mm. A 1.25 31.8 B 1.50 38.1 C 2.00 50.8 D 1 1/4-18 E 3/4-16	DIMENSIONS in. mm. A 1.25 31.8 B 1.50 38.1 C 2.00 50.8 D 1 1/4-18 E 3/4-16	DIMENSIONS in. mm. A 1.25 31.8 B 1.50 38.1 C 2.00 50.8 D 1 1/4-18 E 3/4-16	DIMENSIONS in. mm. A 1.25 31.8 B 1.50 38.1 C 2.00 50.8 D 1 1/4-18 E 3/4-16
<i>This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.</i>			
CONTACTS-SOCKETS Part #ER 2006R-1S	CONTACTS-SOCKETS Part #ER 2006R-3S	CONTACTS-SOCKETS Part #ER 2006R-4S	CONTACTS-SOCKETS Part #ER 2006R-6S
DIMENSIONS in. mm. A 1.50 38.1 B 3.50 88.9 C 2.75 69.9 D 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 3.50 88.9 C 2.75 69.9 D 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 3.50 88.9 C 2.75 69.9 D 1 1/4-18	DIMENSIONS in. mm. A 1.50 38.1 B 3.50 88.9 C 2.75 69.9 D 1 1/4-18
<i>When ordering, please specify length and type of cable desired. This connector is NOT available unassembled.</i>			



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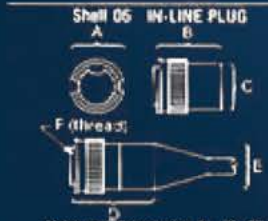
UNDERWATER CONNECTORS

TYPE ER II

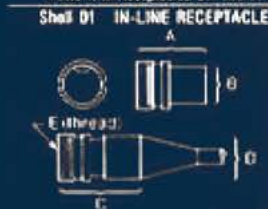
WITH MOLDED KEY INSERTS

Connectors with size 24 shells are supplied with Acme threads.

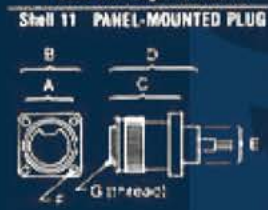
Shell Size 24



Mates with Receptacles 01, 02, 07



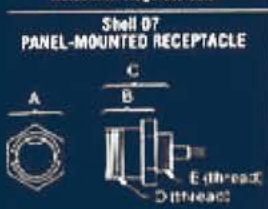
Mates with Plugs 06, 06R, 11



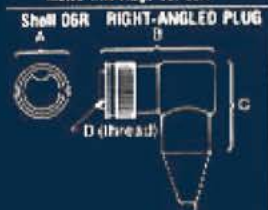
Mates with Receptacle 01



Mates with Plugs 06, 06R



Mates with Plugs 06, 06R



Mates with Receptacles 01, 02, 07

3 No. 10 1600 v.l.	4 No. 12 1600 v.l.	3 No. 12 1/2, 200 v.l. 2 No. 16 6000 v.l.	6 No. 12 1600 v.l.	12 No. 16 1600 v.l.	3 No. 12 1/2 600 v.l. 1 No. 16 6000 v.l.
CONTACTS-SOCKETS Part #ER 2406-3S	CONTACTS-SOCKETS Part #ER 2406-4S	CONTACTS-SOCKETS Part #ER 2406-5S	CONTACTS-SOCKETS Part #ER 2406-6S	CONTACTS-SOCKETS Part #ER 2406-12S	CONTACTS-SOCKETS Part #ER 2406-4SC
DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 2.30 58.4 C 1.30 33.0 D 2.90 73.7 E 1.50 38.1 F 1 1/4-10
When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.					
CONTACTS-PINS Part #ER 2401-3P	CONTACTS-PINS Part #ER 2401-4P	CONTACTS-PINS Part #ER 2401-5P	CONTACTS-PINS Part #ER 2401-6P	CONTACTS-PINS Part #ER 2401-12P	CONTACTS-PINS Part #ER 2401-4PC
DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10	DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10	DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10	DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10	DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10	DIMENSIONS in. mm A 2.30 58.4 B 1.30 33.0 C 2.90 73.7 D 1.50 38.1 E 1 1/4-10
When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.					
CONTACTS-SOCKETS Part #ER 2411-3S	CONTACTS-SOCKETS Part #ER 2411-4S	CONTACTS-SOCKETS Part #ER 2411-5S	CONTACTS-SOCKETS Part #ER 2411-6S	CONTACTS-SOCKETS Part #ER 2411-12S	CONTACTS-SOCKETS Part #ER 2411-4SC
DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 2.40 61.0 D 2.90 73.7 E 1.00 25.4 F .26 6.6 G 1 1/4-10
This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.					
CONTACTS-PINS Part #ER 2402-3P	CONTACTS-PINS Part #ER 2402-4P	CONTACTS-PINS Part #ER 2402-5P	CONTACTS-PINS Part #ER 2402-6P	CONTACTS-PINS Part #ER 2402-12P	CONTACTS-PINS Part #ER 2402-4PC
DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10	DIMENSIONS in. mm A 1.50 38.1 B 2.00 50.8 C 1.50 38.1 D 2.00 50.8 E 1.00 25.4 F .26 6.6 G 1 1/4-10
This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.					
CONTACTS-PINS Part #ER 2407-3P	CONTACTS-PINS Part #ER 2407-4P	CONTACTS-PINS Part #ER 2407-5P	CONTACTS-PINS Part #ER 2407-6P	CONTACTS-PINS Part #ER 2407-12P	CONTACTS-PINS Part #ER 2407-4PC
DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14	DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14	DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14	DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14	DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14	DIMENSIONS in. mm A 1.50 38.1 B 1.50 38.1 C 2.00 50.8 D 1 1/4-10 E 1-14
This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.					
CONTACTS-SOCKETS Part #ER 2406R-3S	CONTACTS-SOCKETS Part #ER 2406R-4S	CONTACTS-SOCKETS Part #ER 2406R-5S	CONTACTS-SOCKETS Part #ER 2406R-6S	CONTACTS-SOCKETS Part #ER 2406R-12S	CONTACTS-SOCKETS Part #ER 2406R-4SC
DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10	DIMENSIONS in. mm A 1.75 44.5 B 4.00 101.6 C 3.06 77.7 D 1 1/4-10
When ordering, please specify length and type of cable desired. This connector is NOT available unassembled.					



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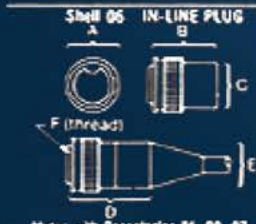


SEAMAX

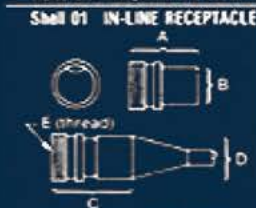
UNDERWATER CONNECTORS

TYPE ER III WITH MOLDED KEY INSERTS

These connectors
are supplied with
Acme threads.



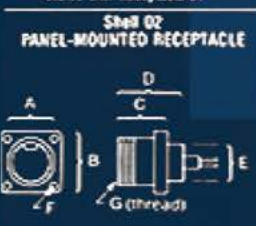
Mates with Receptacles 01, 02, 07



Mates with Plugs 06, 06R, 11



Mates with Receptacle 01



Mates with Plugs 06, 06R



Mates with Plugs 06, 06R



Mates with Receptacles 01, 02, 07

Shell Size 34



3 No. 12 (1,400 v),
13 No. 16 (600 v)

CONTACTS-SOCKETS Part #ER 3406-16S	
DIMENSIONS	
A	2.62 66.5
B	2.40 61.0
C	2.00 50.8
D	5.75 146.1
E	2.40 61.0
F	2 1/4-10



21 No. 16
(600 v)

CONTACTS-SOCKETS Part #ER 3406-21S	
DIMENSIONS	
A	2.62 66.5
B	2.40 61.0
C	2.00 50.8
D	5.75 146.1
E	2.40 61.0
F	2 1/4-10



13 No. 12
15 No. 16

CONTACTS-SOCKETS Part #ER 3406-28S	
DIMENSIONS	
A	2.62 66.5
B	2.40 61.0
C	2.00 50.8
D	5.75 146.1
E	2.40 61.0
F	2 1/4-10



3 No. 2 (3,000 v),
1 No. 12 (600 v)

CONTACTS-SOCKETS Part #ER 3606-4S	
DIMENSIONS	
A	2.60 66.0
B	4.00 101.6
C	2.00 50.8
D	6.00 152.4
E	2.50 63.5
F	2 1/4-12



4 No. 2 (3,000 v),
3 No. 12 (600 v)

CONTACTS-SOCKETS Part #ER 3606-7S	
DIMENSIONS	
A	2.60 66.0
B	4.00 101.6
C	2.00 50.8
D	6.00 152.4
E	2.50 63.5
F	2 1/4-12

Shell Size 44



3 No. 0 (3,000 v),
1 No. 12 (600 v)

CONTACTS-SOCKETS Part #ER 4406-4S	
DIMENSIONS	
A	3.00 76.2
B	4.00 101.6
C	2.37 60.2
D	6.00 152.4
E	2.87 72.9
F	2 1/4-12

When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.

CONTACTS-PINS Part #ER 3401-16P	
DIMENSIONS	
A	2.30 58.4
B	2.00 50.8
C	5.75 146.1
D	2.40 61.0
E	2 1/4-10

CONTACTS-PINS Part #ER 3401-21P	
DIMENSIONS	
A	2.30 58.4
B	2.00 50.8
C	5.75 146.1
D	2.40 61.0
E	2 1/4-10

CONTACTS-PINS Part #ER 3401-28P	
DIMENSIONS	
A	2.30 58.4
B	2.00 50.8
C	5.75 146.1
D	2.40 61.0
E	2 1/4-10

CONTACTS-PINS Part #ER 3601-4P	
DIMENSIONS	
A	3.50 88.9
B	2.12 53.8
C	6.00 152.4
D	2.40 61.0
E	2 1/4-12

CONTACTS-PINS Part #ER 3601-7P	
DIMENSIONS	
A	3.50 88.9
B	2.12 53.8
C	6.00 152.4
D	2.40 61.0
E	2 1/4-12

CONTACTS-PINS Part #ER 4401-4P	
DIMENSIONS	
A	3.50 88.9
B	2.50 63.5
C	6.00 152.4
D	2.80 71.1
E	2 1/4-12

When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.

CONTACTS-SOCKETS Part #ER 3411-16S	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	2.40 61.0
D	2.90 73.7
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

CONTACTS-SOCKETS Part #ER 3411-21S	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	2.40 61.0
D	2.90 73.7
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

CONTACTS-SOCKETS Part #ER 3411-28S	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	2.40 61.0
D	2.90 73.7
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

AVAILABLE
AS A
SPECIAL ORDER
ITEM ONLY

AVAILABLE
AS A
SPECIAL ORDER
ITEM ONLY

AVAILABLE
AS A
SPECIAL ORDER
ITEM ONLY

This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #ER 3402-16P	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	1.50 38.1
D	2.00 50.8
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

CONTACTS-PINS Part #ER 3402-21P	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	1.50 38.1
D	2.00 50.8
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

CONTACTS-PINS Part #ER 3402-28P	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	1.50 38.1
D	2.00 50.8
E	1.62 41.1
F	.38 9.7
G	2 1/4-10

CONTACTS-PINS Part #ER 3602-4P	
DIMENSIONS	
A	2.12 53.8
B	2.75 69.9
C	2.62 66.5
D	3.50 88.9
E	2.00 50.8
F	.38 9.7
G	2 1/4-12

CONTACTS-PINS Part #ER 3602-7P		
DIMENSIONS		
	in.	mm.
A	2.12	53.8
B	2.75	69.9
C	2.62	66.5
D	3.50	88.9
E	2.00	50.8
F	.38	9.7
G	2 1/4-12	

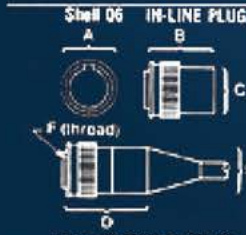


SEAMAX

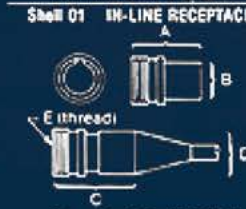
UNDERWATER CONNECTORS

TYPE EB WITH MACHINED KEY INSERTS

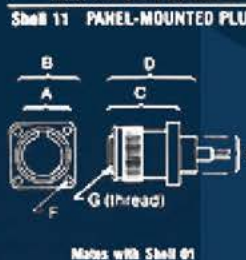
Connectors with size 16 shells are supplied with V-threads. All others are supplied with Acme threads.



Mates with Shells 01, 02, 07



Mates with Shells 06, 06A, 11



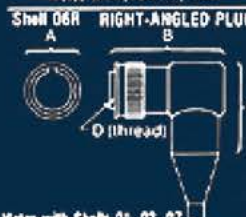
Mates with Shell 01



Mates with Shells 06, 06A



Mates with Shells 06, 06A



Mates with Shells 01, 02, 07

Shell Size 16



3 No. 16 (600 v)



4 No. 16 (600 v)



1 No. 12 50-52 coax



6 No. 16 (600 v)

Shell Size 24



19 No. 16 (600 v)

Shell Size 34



37 No. 16 (600 v)

CONTACTS-PINS Part #EB 1606-3P	CONTACTS-PINS Part #EB 1606-4P
CONTACTS-SOCKETS Part #EB 1606-3S	CONTACTS-SOCKETS Part #EB 1606-4S
DIMENSIONS	DIMENSIONS
A 1.18 30.0	A 1.18 30.0
B 1.75 44.5	B 1.75 44.5
C .82 20.8	C .82 20.8
D 2.40 61.0	D 2.40 61.0
E 1.15 29.2	E 1.15 29.2
F 1-14	F 1-14

CONTACTS-PINS Part #EB 2406-3P	CONTACTS-PINS Part #EB 2406-4P
CONTACTS-SOCKETS Part #EB 2406-3S	CONTACTS-SOCKETS Part #EB 2406-4S
DIMENSIONS	DIMENSIONS
A 1.75 44.5	A 1.75 44.5
B 2.30 58.4	B 2.30 58.4
C 1.30 33.0	C 1.30 33.0
D 2.90 73.7	D 2.90 73.7
E 1.50 38.1	E 1.50 38.1
F 1 1/4-10	F 1 1/4-10

CONTACTS-PINS Part #EB 3406-3P	CONTACTS-PINS Part #EB 3406-4P
CONTACTS-SOCKETS Part #EB 3406-3S	CONTACTS-SOCKETS Part #EB 3406-4S
DIMENSIONS	DIMENSIONS
A 2.63 66.8	A 2.63 66.8
B 2.40 61.0	B 2.40 61.0
C 2.00 50.8	C 2.00 50.8
D 2.90 73.7	D 2.90 73.7
E 2.40 61.0	E 2.40 61.0
F 2 1/4-10	F 2 1/4-10

CONTACTS-PINS Part #EB 4606-3P	CONTACTS-PINS Part #EB 4606-4P
CONTACTS-SOCKETS Part #EB 4606-3S	CONTACTS-SOCKETS Part #EB 4606-4S
DIMENSIONS	DIMENSIONS
A 3.50 88.9	A 3.50 88.9
B 2.53 64.3	B 2.53 64.3
C 2.88 73.7	C 2.88 73.7
D 3.00 76.2	D 3.00 76.2
E 3.10 78.7	E 3.10 78.7
F 2 1/2-12	F 2 1/2-12

When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.

CONTACTS-PINS Part #EB 1601-3P	CONTACTS-PINS Part #EB 1601-4P
CONTACTS-SOCKETS Part #EB 1601-3S	CONTACTS-SOCKETS Part #EB 1601-4S
DIMENSIONS	DIMENSIONS
A 2.00 50.8	A 2.00 50.8
B .88 22.4	B .88 22.4
C 2.90 73.7	C 2.90 73.7
D 1.15 29.2	D 1.15 29.2
E 1-14	E 1-14

CONTACTS-PINS Part #EB 2401-3P	CONTACTS-PINS Part #EB 2401-4P
CONTACTS-SOCKETS Part #EB 2401-3S	CONTACTS-SOCKETS Part #EB 2401-4S
DIMENSIONS	DIMENSIONS
A 2.30 58.4	A 2.30 58.4
B 1.30 33.0	B 1.30 33.0
C 2.90 73.7	C 2.90 73.7
D 1.50 38.1	D 1.50 38.1
E 1 1/4-10	E 1 1/4-10

CONTACTS-PINS Part #EB 3401-3P	CONTACTS-PINS Part #EB 3401-4P
CONTACTS-SOCKETS Part #EB 3401-3S	CONTACTS-SOCKETS Part #EB 3401-4S
DIMENSIONS	DIMENSIONS
A 2.30 58.4	A 2.30 58.4
B 1.30 33.0	B 1.30 33.0
C 2.90 73.7	C 2.90 73.7
D 1.50 38.1	D 1.50 38.1
E 1 1/4-10	E 1 1/4-10

CONTACTS-PINS Part #EB 4601-3P	CONTACTS-PINS Part #EB 4601-4P
CONTACTS-SOCKETS Part #EB 4601-3S	CONTACTS-SOCKETS Part #EB 4601-4S
DIMENSIONS	DIMENSIONS
A 2.75 69.9	A 2.75 69.9
B 2.50 63.5	B 2.50 63.5
C 3.90 99.0	C 3.90 99.0
D 3.00 76.2	D 3.00 76.2
E 2 1/2-12	E 2 1/2-12

When ordering, please specify length and type of cable desired. For connectors ordered unassembled, molded backshells are not included.

CONTACTS-PINS Part #EB 1611-3P	CONTACTS-PINS Part #EB 1611-4P
CONTACTS-SOCKETS Part #EB 1611-3S	CONTACTS-SOCKETS Part #EB 1611-4S
DIMENSIONS	DIMENSIONS
A 1.00 25.4	A 1.00 25.4
B 1.50 38.1	B 1.50 38.1
C 2.40 61.0	C 2.40 61.0
D 2.90 73.7	D 2.90 73.7
E .63 16.0	E .63 16.0
F .26 6.6	F .26 6.6
G 1-14	G 1-14

CONTACTS-PINS Part #EB 2411-3P	CONTACTS-PINS Part #EB 2411-4P
CONTACTS-SOCKETS Part #EB 2411-3S	CONTACTS-SOCKETS Part #EB 2411-4S
DIMENSIONS	DIMENSIONS
A 1.50 38.1	A 1.50 38.1
B 2.00 50.8	B 2.00 50.8
C 2.50 63.5	C 2.50 63.5
D 3.00 76.2	D 3.00 76.2
E 1.00 25.4	E 1.00 25.4
F .26 6.6	F .26 6.6
G 1 1/4-10	G 1 1/4-10

CONTACTS-PINS Part #EB 3411-3P	CONTACTS-PINS Part #EB 3411-4P
CONTACTS-SOCKETS Part #EB 3411-3S	CONTACTS-SOCKETS Part #EB 3411-4S
DIMENSIONS	DIMENSIONS
A 2.00 50.8	A 2.00 50.8
B 2.83 66.8	B 2.83 66.8
C 2.50 63.5	C 2.50 63.5
D 3.00 76.2	D 3.00 76.2
E 1.82 41.1	E 1.82 41.1
F .33 8.4	F .33 8.4
G 2 1/4-10	G 2 1/4-10

CONTACTS-PINS Part #EB 4611-3P	CONTACTS-PINS Part #EB 4611-4P
CONTACTS-SOCKETS Part #EB 4611-3S	CONTACTS-SOCKETS Part #EB 4611-4S
DIMENSIONS	DIMENSIONS
A 2.87 72.9	A 2.87 72.9
B 3.50 88.9	B 3.50 88.9
C 2.50 63.5	C 2.50 63.5
D 3.00 76.2	D 3.00 76.2
E 1.82 41.1	E 1.82 41.1
F .33 8.4	F .33 8.4
G 2 1/2-12	G 2 1/2-12

This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EB 1602-3P	CONTACTS-PINS Part #EB 1602-4P
CONTACTS-SOCKETS Part #EB 1602-3S	CONTACTS-SOCKETS Part #EB 1602-4S
DIMENSIONS	DIMENSIONS
A 1.00 25.4	A 1.00 25.4
B 1.50 38.1	B 1.50 38.1
C 1.25 31.8	C 1.25 31.8
D 1.75 44.5	D 1.75 44.5
E .63 16.0	E .63 16.0
F .26 6.6	F .26 6.6
G 1-14	G 1-14

CONTACTS-PINS Part #EB 2402-3P	CONTACTS-PINS Part #EB 2402-4P
CONTACTS-SOCKETS Part #EB 2402-3S	CONTACTS-SOCKETS Part #EB 2402-4S
DIMENSIONS	DIMENSIONS
A 1.50 38.1	A 1.50 38.1
B 2.00 50.8	B 2.00 50.8
C 1.50 38.1	C 1.50 38.1
D 2.00 50.8	D 2.00 50.8
E 1.00 25.4	E 1.00 25.4
F .26 6.6	F .26 6.6
G 1 1/4-10	G 1 1/4-10

CONTACTS-PINS Part #EB 3402-3P	CONTACTS-PINS Part #EB 3402-4P
CONTACTS-SOCKETS Part #EB 3402-3S	CONTACTS-SOCKETS Part #EB 3402-4S
DIMENSIONS	DIMENSIONS
A 1.50 38.1	A 1.50 38.1
B 2.00 50.8	B 2.00 50.8
C 1.50 38.1	C 1.50 38.1
D 2.00 50.8	D 2.00 50.8
E 1.00 25.4	E 1.00 25.4
F .26 6.6	F .26 6.6
G 1 1/4-10	G 1 1/4-10

CONTACTS-PINS Part #EB 4602-3P	CONTACTS-PINS Part #EB 4602-4P
CONTACTS-SOCKETS Part #EB 4602-3S	CONTACTS-SOCKETS Part #EB 4602-4S
DIMENSIONS	DIMENSIONS
A 2.75 69.9	A 2.75 69.9
B 3.50 88.9	B 3.50 88.9
C 1.75 44.5	C 1.75 44.5
D 2.25 57.2	D 2.25 57.2
E 2.36 59.9	E 2.36 59.9
F .38 9.7	F .38 9.7
G 2 1/2-12	G 2 1/2-12

This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EB 1607-3P	CONTACTS-PINS Part #EB 1607-4P
CONTACTS-SOCKETS Part #EB 1607-3S	CONTACTS-SOCKETS Part #EB 1607-4S
DIMENSIONS	DIMENSIONS
A 1.00 25.4	A 1.00 25.4
B 1.25 31.8	B 1.25 31.8
C 1.75 44.5	C 1.75 44.5
D 1-14	D 1-14
E 1/8-18	E 1/8-18

CONTACTS-PINS Part #EB 2407-3P	CONTACTS-PINS Part #EB 2407-4P
CONTACTS-SOCKETS Part #EB 2407-3S	CONTACTS-SOCKETS Part #EB 2407-4S
DIMENSIONS	DIMENSIONS
A 1.50 38.1	A 1.50 38.1
B 1.50 38.1	B 1.50 38.1
C 2.00 50.8	C 2.00 50.8
D 1 1/4-10	D 1 1/4-10
E 1-14	E 1-14

CONTACTS-PINS Part #EB 3407-3P	CONTACTS-PINS Part #EB 3407-4P
CONTACTS-SOCKETS Part #EB 3407-3S	CONTACTS-SOCKETS Part #EB 3407-4S
DIMENSIONS	DIMENSIONS
A 2.25 63.5	A 2.25 63.5
B 1.63 41.4	B 1.63 41.4
C 2.12 53.8	C 2.12 53.8
D 2 1/4-10	D 2 1/4-10
E 1 1/2-12	E 1 1/2-12

CONTACTS-PINS Part #EB 4607-3P	CONTACTS-PINS Part #EB 4607-4P
CONTACTS-SOCKETS Part #EB 4607-3S	CONTACTS-SOCKETS Part #EB 4607-4S
DIMENSIONS	DIMENSIONS
A 2.87 72.9	A 2.87 72.9
B 1.75 44.5	B 1.75 44.5
C 2.25 57.2	C 2.25 57.2
D 2 1/2-12	D 2 1/2-12
E 2 1/2-12	E 2 1/2-12

This connector is supplied with Teflon® insulated pigtails. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EB 1606R-3P	CONTACTS-PINS Part #EB 1606R-4P
CONTACTS-SOCKETS Part #EB 1606R-3S	CONTACTS-SOCKETS Part #EB 1606R-4S
DIMENSIONS	DIMENSIONS
A 1.18 30.0	A 1.18 30.0
B 2.50 63.5	B 2.50 63.5
C 2.12 53.8	C 2.12 53.8
D 1-14	D 1-14

CONTACTS-PINS Part #EB 2406R-3P	CONTACTS-PINS Part #EB 2406R-4P
CONTACTS-SOCKETS Part #EB 2406R-3S	CONTACTS-SOCKETS Part #EB 2406R-4S
DIMENSIONS	DIMENSIONS
A 1.75 44.5	A 1.75 44.5
B 4.00 101.6	B 4.00 101.6
C 3.06 77.7	C 3.06 77.7
D 1 1/4-10	D 1 1/4-10

CONTACTS-PINS Part #EB 3406R-3P	CONTACTS-PINS Part #EB 3406R-4P
CONTACTS-SOCKETS Part #EB 3406R-3S	CONTACTS-SOCKETS Part #EB 3406R-4S
DIMENSIONS	DIMENSIONS
A 1.75 44.5	A 1.75 44.5
B 5.00 127.0	B 5.00 127.0
C 3.70 94.0	C 3.70 94.0
D 2 1/4-10	D 2 1/4-10

CONTACTS-PINS Part #EB 4606R-3P	CONTACTS-PINS Part #EB 4606R-4P
CONTACTS-SOCKETS Part #EB 4606R-3S	CONTACTS-SOCKETS Part #EB 4606R-4S
DIMENSIONS	DIMENSIONS
A 3.50 88.9	A 3.50 88.9
B 5.00 127.0	B 5.00 127.0
C 3.70 94.0	C 3.70 94.0
D 2 1/2-12	D 2 1/2-12

When ordering, please specify length and type of cable desired. This connector is NOT available unassembled.



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

SEAMAX MENU

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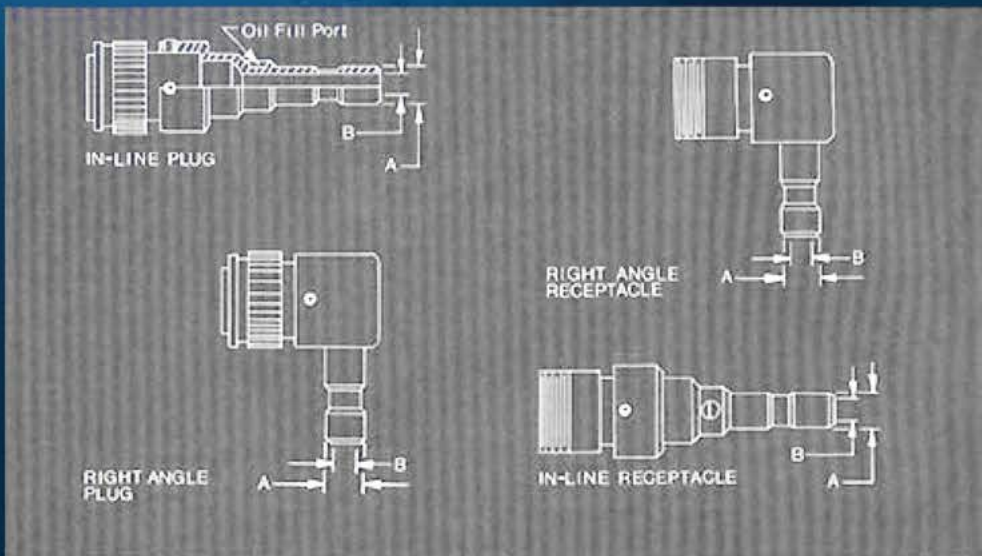
SEAMAX

UNDERWATER CONNECTORS

TYPE ERPB With molded key inserts

Connectors for Oil-Filled Cables

When underwater engineering projects demand the characteristics of oil-filled cable assemblies, SEAMAX connectors are the answer. SEAMAX oil-filled cable systems provide the greatest possible reliability. Our oil-filled systems are also designed to permit easy assembly and repair of cables on site. SEAMAX connectors for oil-filled cables are built using the same proven techniques used in our ER and E6 series of connectors. Connector bodies are supplied with backshells machined from stainless steel or anodized aluminum. Backshells mate with standard sizes of oil-fill tubing for the construction of pressure compensated, oil-filled cable assemblies.



Shell Size 20

	1 No. 16	3 No. 16	4 No. 16	6 No. 16
	1 No. 16	3 No. 16	4 No. 16	6 No. 16
In-Line Plug (Sockets)	Part No. ERPB 2006-1S	Part No. ERPB 2006-3S	Part No. ERPB 2006-4S	Part No. ERPB 2006-6S
Right Angle Plug (Sockets)	Part No. ERPB 2006R-1S	Part No. ERPB 2006R-3S	Part No. ERPB 2006R-4S	Part No. ERPB 2006R-6S
In-Line Receptacle (Pins)	Part No. ERPB 2001-1P	Part No. ERPB 2001-3P	Part No. ERPB 2001-4P	Part No. ERPB 2001-6P
Right Angle Receptacle (Pins)	Part No. ERPB 2001R-1P	Part No. ERPB 2001R-3P	Part No. ERPB 2001R-4P	Part No. ERPB 2001R-6P
	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS
	in. mm.	in. mm.	in. mm.	in. mm.
A	672 17.1	672 17.1	672 17.1	672 17.1
B	438 11.1	438 11.1	438 11.1	438 11.1

SEAMAX CONNECTORS FOR OILFILLED CABLES

Pictured here is an in-line plug and an in-line receptacle designed to be used with oil-filled pressure balanced cables. Oil-filled metal backshells are secured to connector bodies by set screws. Rubber O-rings provide the seals between the connector bodies and the backshells. Connectors shown here are an ERPB 3401-16P and an ERPB 3406-16S in stainless steel.



**UNDERWATER
SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

SEAMAX MENU

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SEAMAX

UNDERWATER CONNECTORS

OIL-FILLED CABLES

TYPE ERPB II WITH MOLDED KEY INSERTS

Shell Size 24

	3 No. 10	4 No. 10	3 No. 12 2 No. 16	8 No. 12	12 No. 16	3 No. 12 1 50 Ohm COAX
In-Line Plug (Sockets) Right Angle Plug (Sockets) In-Line Receptacle (Pins) Right Angle Receptacle (Pins)	Part No. ERPB 2406-3S ERPB 2406R-3S ERPB 2401-3P ERPB 2401R-3P	Part No. ERPB 2406-4S ERPB 2406R-4S ERPB 2401-4P ERPB 2401R-4P	Part No. ERPB 2406-5S ERPB 2406R-5S ERPB 2401-5P ERPB 2401R-5P	Part No. ERPB 2406-8S ERPB 2406R-8S ERPB 2401-8P ERPB 2401R-8P	Part No. ERPB 2406-12S ERPB 2406R-12S ERPB 2401-12P ERPB 2401R-12P	Part No. ERPB 2406-31S ERPB 2406R-31S ERPB 2401-31P ERPB 2401R-31P
	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS
	IN. MM. A .844 21.4 B .625 15.9	IN. MM. A .844 21.4 B .625 15.9	IN. MM. A .672 17.1 B .600 12.7	IN. MM. A .672 17.1 B .500 12.7	IN. MM. A .672 17.1 B .500 12.7	IN. MM. A .672 17.1 B .500 12.7

Shell Size 34

Shell Size 36

	3 No. 12 13 No. 16	21 No. 16	13 No. 12 15 No. 16	3 No. 2 1 No. 12	4 No. 2 3 No. 12	
In-Line Plug (Sockets) Right Angle Plug (Sockets) In-Line Receptacle (Pins) Right Angle Receptacle (Pins)	Part No. ERPB 3406-16S ERPB 3406R-16S ERPB 3401-16P ERPB 3401R-16P	Part No. ERPB 3406-21S ERPB 3406R-21S ERPB 3401-21P ERPB 3401R-21P	Part No. ERPB 3406-26S ERPB 3406R-26S ERPB 3401-26P ERPB 3401R-26P	Part No. ERPB 3606-4S ERPB 3606R-4S ERPB 3601-4P ERPB 3601R-4P	Part No. ERPB 3606-7S ERPB 3606R-7S ERPB 3601-7P ERPB 3601R-7P	
	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	
	IN. MM. A .844 21.4 B .625 15.9	IN. MM. A .844 21.4 B .625 15.9	IN. MM. A 1.000 25.4 B .825 21.0	IN. MM. A 1.250 31.8 B 1.060 26.7	IN. MM. A 1.250 31.8 B 1.060 26.7	

TYPE EBPB WITH MACHINED KEY

Shell Size 16

Shell Size 24

Shell Size 34

Shell Size 46

	3 No. 16	4 No. 16	1 No. 12 50 Ohm COAX	6 No. 16	19 No. 16	37 No. 16
In-Line Plug (Sockets) In-Line Plug (Pins) Right Angle Plug (Sockets) Right Angle Plug (Pins) In-Line Receptacle (Pins) In-Line Receptacle (Sockets) Right Angle Receptacle (Pins) Right Angle Receptacle (Sockets)	Part No. EBPB 1606-3S EBPB 1606-3P EBPB 1606R-3S EBPB 1606R-3P EBPB 1601-3P EBPB 1601-3S EBPB 1601R-3P EBPB 1601R-3S	Part No. EBPB 1606-4S EBPB 1606-4P EBPB 1606R-4S EBPB 1606R-4P EBPB 1601-4P EBPB 1601-4S EBPB 1601R-4P EBPB 1601R-4S	Part No. EBPB 1606-1SC EBPB 1606R-1SC EBPB 1601-1PC EBPB 1601R-1PC	Part No. EBPB 2406-6S EBPB 2406-6P EBPB 2406R-6S EBPB 2406R-6P EBPB 2401-6P EBPB 2401-6S EBPB 2401R-6P EBPB 2401R-6S	Part No. EBPB 3406-19S EBPB 3406-19P EBPB 3406R-19S EBPB 3406R-19P EBPB 3401-19P EBPB 3401-19S EBPB 3401R-19P EBPB 3401R-19S	Part No. EBPB 4606-37S EBPB 4606-37P EBPB 4606R-37S EBPB 4606R-37P EBPB 4601-37P EBPB 4601-37S EBPB 4601R-37P EBPB 4601R-37S
	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS	DIMENSIONS
	IN. MM. A .406 10.3 B .312 7.9	IN. MM. A .406 10.3 B .312 7.9	IN. MM. A .672 17.1 B .500 12.7	IN. MM. A .672 17.1 B .500 12.7	IN. MM. A .844 21.4 B .625 15.9	IN. MM. A 1.000 25.4 B .825 21.0



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10603 Progress way, Cypress CA 90630
Tel: +1-714-229 9268 Fax: +1-714-229 9274
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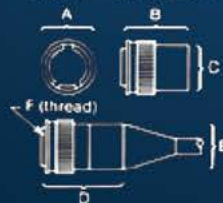
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UNDERWATER CONNECTORS

TYPE EC WITH MACHINED KEY INSERTS

Connectors with size 16 shells are supplied with V-threads. Size 24 shells are supplied with Acme threads.

Shell 06 IN-LINE PLUG



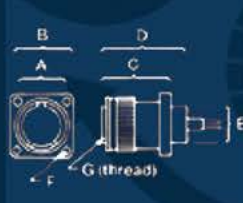
Mates with Receptacles 01, 02, 07

Shell 01 IN-LINE RECEPTACLE



Mates with Plugs 06, 06R, 11

Shell 11 PANEL-MOUNTED PLUG



Mates with Receptacle 01

Shell 02 PANEL-MOUNTED RECEPTACLE



Mates with Plugs 06, 06R

Shell 07 PANEL-MOUNTED RECEPTACLE



Mates with Plugs 06, 06R

Shell 06R RIGHT-ANGLED PLUG



Mates with Receptacles 01, 02, 07

Shell Size 16



10 No. 20 CONTACTS
(600 v)

CONTACTS-PINS
Part #EC 1606-10P
CONTACTS-SOCKETS
Part #EC 1606-10S

DIMENSIONS
in. mm.
A 1.18 30.0
B 2.71 68.8
C .75 19.0
D 3.00 76.2
E 1.13 28.7
F 1-14



14 No. 20 CONTACTS
(600 v)

CONTACTS-PINS
Part #EC 1606-14P
CONTACTS-SOCKETS
Part #EC 1606-14S

DIMENSIONS
in. mm.
A 1.18 30.0
B 2.71 68.8
C .75 19.0
D 3.00 76.2
E 1.13 28.7
F 1-14



16 No. 16 CONTACTS
(1,000 v)

CONTACTS-PINS
Part #EC 2406-16P
CONTACTS-SOCKETS
Part #EC 2406-16S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.60 91.4
C 1.25 31.8
D 3.50 88.9
E 1.73 43.9
F 1 1/2-10



2 No. 15 CONTACTS
37 No. 20 CONTACTS

CONTACTS-PINS
Part #EC 2406-39P
CONTACTS-SOCKETS
Part #EC 2406-39S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.60 91.4
C 1.25 31.8
D 3.50 88.9
E 1.73 43.9
F 1 1/2-10



41 No. 20 CONTACTS
(600 v)

CONTACTS-PINS
Part #EC 2406-41P
CONTACTS-SOCKETS
Part #EC 2406-41S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.60 91.4
C 1.25 31.8
D 3.50 88.9
E 1.73 43.9
F 1 1/2-10

When ordering, please specify length and type of cable desired.
For connectors ordered unassembled, molded backshells are not included.

CONTACTS-PINS Part #EC 1601-10P

CONTACTS-SOCKETS
Part #EC 1601-10S

DIMENSIONS
in. mm.
A 2.50 63.5
B .75 19.1
C 2.75 69.9
D 1.13 28.7
E 1-14

CONTACTS-PINS Part #EC 1601-14P

CONTACTS-SOCKETS
Part #EC 1601-14S

DIMENSIONS
in. mm.
A 2.50 63.5
B .75 19.1
C 2.75 69.9
D 1.13 28.7
E 1-14

CONTACTS-PINS Part #EC 2401-16P

CONTACTS-SOCKETS
Part #EC 2401-16S

DIMENSIONS
in. mm.
A 2.80 71.1
B 1.25 31.8
C 3.00 76.2
D 1.73 43.9
E 1 1/2-10

CONTACTS-PINS Part #EC 2401-39P

CONTACTS-SOCKETS
Part #EC 2401-39S

DIMENSIONS
in. mm.
A 2.80 71.1
B 1.25 31.8
C 3.00 76.2
D 1.73 43.9
E 1 1/2-10

CONTACTS-PINS Part #EC 2401-41P

CONTACTS-SOCKETS
Part #EC 2401-41S

DIMENSIONS
in. mm.
A 2.80 71.1
B 1.25 31.8
C 3.00 76.2
D 1.73 43.9
E 1 1/2-10

When ordering, please specify length and type of cable desired.
For connectors ordered unassembled, molded backshells are not included.

CONTACTS-PINS Part #EC 1611-10P

CONTACTS-SOCKETS
Part #EC 1611-10S

DIMENSIONS
in. mm.
A 1.00 25.4
B 1.50 38.1
C 2.88 73.2
D 3.00 76.2
E .63 16.0
F .26 6.6
G 1-14

CONTACTS-PINS Part #EC 1611-14P

CONTACTS-SOCKETS
Part #EC 1611-14S

DIMENSIONS
in. mm.
A 1.00 25.4
B 1.50 38.1
C 2.88 73.2
D 3.00 76.2
E .63 16.0
F .26 6.6
G 1-14

CONTACTS-PINS Part #EC 2411-16P

CONTACTS-SOCKETS
Part #EC 2411-16S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 3.16 80.3
D 3.28 83.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

CONTACTS-PINS Part #EC 2411-39P

CONTACTS-SOCKETS
Part #EC 2411-39S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 3.16 80.3
D 3.28 83.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

CONTACTS-PINS Part #EC 2411-41P

CONTACTS-SOCKETS
Part #EC 2411-41S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 3.16 80.3
D 3.28 83.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EC 1602-10P

CONTACTS-SOCKETS
Part #EC 1602-10S

DIMENSIONS
in. mm.
A 1.00 25.4
B 1.50 38.1
C 1.63 41.4
D 2.13 54.1
E .63 16.0
F .26 6.6
G 1-14

CONTACTS-PINS Part #EC 1602-14P

CONTACTS-SOCKETS
Part #EC 1602-14S

DIMENSIONS
in. mm.
A 1.00 25.4
B 1.50 38.1
C 1.63 41.4
D 2.13 54.1
E .63 16.0
F .26 6.6
G 1-14

CONTACTS-PINS Part #EC 2402-16P

CONTACTS-SOCKETS
Part #EC 2402-16S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 2.15 54.6
D 2.65 67.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

CONTACTS-PINS Part #EC 2402-39P

CONTACTS-SOCKETS
Part #EC 2402-39S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 2.15 54.6
D 2.65 67.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

CONTACTS-PINS Part #EC 2402-41P

CONTACTS-SOCKETS
Part #EC 2402-41S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.00 50.8
C 2.15 54.6
D 2.65 67.3
E 1.00 25.4
F .26 6.6
G 1 1/2-10

This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EC 1607-10P

CONTACTS-SOCKETS
Part #EC 1607-10S

DIMENSIONS
in. mm.
A 1.13 28.6
B 1.63 41.3
C 2.13 54.1
D 1-14
E 1/8-18

CONTACTS-PINS Part #EC 1607-14P

CONTACTS-SOCKETS
Part #EC 1607-14S

DIMENSIONS
in. mm.
A 1.13 28.6
B 1.63 41.3
C 2.13 54.1
D 1-14
E 1/8-18

CONTACTS-PINS Part #EC 2407-16P

CONTACTS-SOCKETS
Part #EC 2407-16S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.15 54.6
C 2.65 67.3
D 1 1/2-10
E 1-14

CONTACTS-PINS Part #EC 2407-39P

CONTACTS-SOCKETS
Part #EC 2407-39S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.15 54.6
C 2.65 67.3
D 1 1/2-10
E 1-14

CONTACTS-PINS Part #EC 2407-41P

CONTACTS-SOCKETS
Part #EC 2407-41S

DIMENSIONS
in. mm.
A 1.50 38.1
B 2.15 54.6
C 2.65 67.3
D 1 1/2-10
E 1-14

This connector is supplied with Teflon® insulated pigtail. Unless otherwise specified, pigtail length is 24 inches.

CONTACTS-PINS Part #EC 1606R-10P

CONTACTS-SOCKETS
Part #EC 1606R-10S

DIMENSIONS
in. mm.
A 1.18 30.0
B 3.00 76.2
C 2.50 63.5
D 1-14

CONTACTS-PINS Part #EC 1606R-14P

CONTACTS-SOCKETS
Part #EC 1606R-14S

DIMENSIONS
in. mm.
A 1.18 30.0
B 3.00 76.2
C 2.50 63.5
D 1-14

CONTACTS-PINS Part #EC 2406R-16P

CONTACTS-SOCKETS
Part #EC 2406R-16S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.50 88.9
C 3.00 76.2
D 1 1/2-10

CONTACTS-PINS Part #EC 2406R-39P

CONTACTS-SOCKETS
Part #EC 2406R-39S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.50 88.9
C 3.00 76.2
D 1 1/2-10

CONTACTS-PINS Part #EC 2406R-41P

CONTACTS-SOCKETS
Part #EC 2406R-41S

DIMENSIONS
in. mm.
A 1.75 44.5
B 3.50 88.9
C 3.00 76.2
D 1 1/2-10

When ordering, please specify length and type of cable desired. This connector is NOT available unassembled.



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SYSTEMS INC.**

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Tel: +1-714-229 9268 Fax: +1-714-229 9274
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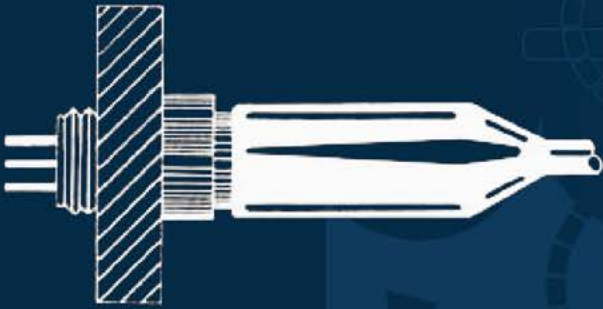
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UNDERWATER CONNECTORS

UNDERWATER SYSTEMS HAS CAPABILITIES FOR SPECIAL UNDERSEA DESIGNS

Whenever there are unique requirements which cannot be addressed by the off-the shelf components shown on these pages, our connector design engineers are ready to meet your unique requirements. Whether your needs call for a special connector or a complex underwater assembly, our engineers have the experience to design the system you need. Underwater Systems capabilities include the following:

- Full responsibility for cable and connectors from one company
- Designing connectors with unusual geometric specification to accommodate special equipment
- Designing connectors with special materials for low magnetic permeability corrosion resistance, reduced weight, or high mechanical strength.
- Designing armored terminations for load bearing cable assemblies.
- Designing connectors with robotic disconnect capabilities.



PENETRATOR ASSEMBLIES

Underwater Systems manufactures both standard and customized assemblies for electrical penetration of pressure vessels. Standard assemblies are suitable for depths of 3,000 feet. Penetration assemblies to withstand higher pressures and high temperatures may also be ordered.



SUBMERSIBLE RIG ASSEMBLY

This assembly is used as part of the control system on an offshore drilling platform. The rightangle connector is terminated to steel-armored, waterblocked cable.



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DELTA SERIES

UNDERWATER CONNECTORS

**INSERT
CONFIGURATION**

ATTACHMENTS

ORDERING



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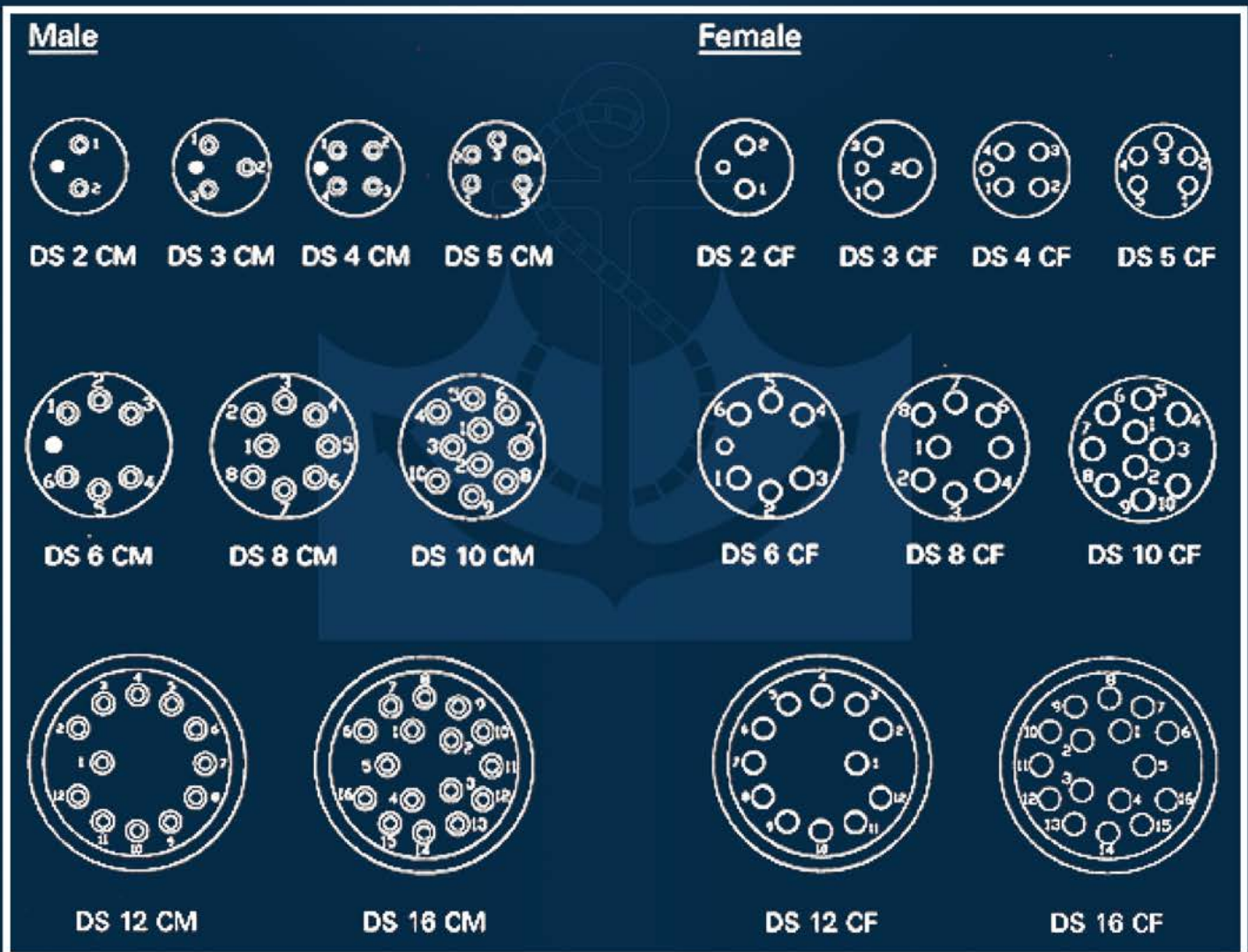


DELTA SERIES

UNDERWATER CONNECTORS

Underwater Systems is pleased to introduce the Delta Underwater Connector Series. Delta Connectors' innovative new design provides full modularity between connector shell and insert. This 'mix and match' approach to connector specification allows for our customers to maximize their inventory control while providing a robust means by which changing application requirements can be met.

INSERT CONFIGURATION



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SYSTEMS INC.**

10603 Progress way, Cypress CA 90630
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DELTA SERIES MENU

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DELTA SERIES

UNDERWATER CONNECTORS

DELTA SERIES INSERTS

20 Size Shell			24 Size Shell			34 Size Shell		
	inch	mm		inch	mm		inch	mm
A	1.275	32.4	A	1.275	32.4	A	1.275	32.4
B	0.900	22.9	B	0.900	22.9	B	0.900	22.9
C	1.00	25.4	C	1.25	31.7	C	1.60	40.6

ATTACHMENTS

Field Installable

DS 20 FI

inch mm

A 1.125 28.6
B 4.00 101.6

DS 24 FI

inch mm

1.375 34.9
4.00 101.6

DS 34 FI

inch mm

1.875 47.6
4.00 101.6

Oil Filled

DS 20 OF

inch mm

A 1.125 28.6
B 1.61 40.9
C 2.977 75.6
D 0.523 13.3

DS 24 OF

inch mm

1.375 34.9
1.485 37.7
2.976 75.6
0.588 14.9

DS 34 OF

inch mm

1.875 47.6
1.235 31.4
2.977 75.6
0.5625 14.3

Panel Mount Bolting Flange

DS 20 11

inch mm

A 1.25 31.7
B 1.75 44.4
C 1.875 47.6
D 2.375 60.3
E 1.00 25.4

DS 24 11

inch mm

1.50 38.1
2.00 50.8
1.875 47.6
2.375 60.3
1.00 25.4

DS 34 11

inch mm

2.12 53.8
2.75 69.8
1.875 47.6
2.375 60.3
1.50 38.1

Panel Mount Hex Flange

DS 20 07

inch mm

A 1.25 31.7
B 1.875 47.6
C 2.375 60.3
D 3/4-16

DS 24 07

inch mm

1.50 38.1
1.887 47.9
2.387 60.6
1-14

DS 34 07

inch mm

2.25 57.1
1.875 47.6
2.375 60.3
1 5/8-12



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DELTA SERIES

UNDERWATER CONNECTORS

ORDERING ASSISTENCE

DS 2 C M + DS 20 07

NUMBER OF CONTACTS

"C" IS CIRCULAR

"M" IS MALE (PINS)

"F" IS FEMALE (SOCKETS)

ATTACHMENT STYLE

"07" PANEL MOUNT HEX FLANGE

11" PANEL MOUNT BOLTING FLANGE

"FI" FIELD INSTALLABLE

"OF" OIL FILLED

PHYSICAL SIZE OF THE ATTACHMENT

SPECIFICATIONS

Pressure rating 10,000 psi (700 Bar)

Voltage rating 240 V AC

Current rating 15A

MATERIALS

STANDARD

SHELL	316 SST
MOLDING MATERIAL	NEOPRENE 70-A
CONTACTS	NAVAL BRASS
COUPLING NUT	DELTRIN®
O-RING	BUNA N®

OPTIONAL

AN-AL. TITANIUM. MONEL®. NAVAL BRASS
HYPALON®, VITON®
GOLD PLATED NAVAL BRASS
ALUMINIUM BRONZE
VITON



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Tel: +1-714-229 9268 Fax: +1-714-229 9274
E-Mail: info@underwatersystems.com
www.underwatersystems.com

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CONTACTS

UNDERWATER SYSTEMS



PRESIDENT TANER BAYRACK

bayrak@underwatersystems.com



ENGINEERING JAY SHAH

engineering@underwatersystems.com



ACCOUNTING HALUK EROGLU

accounring@underwatersystems.com



PURCHASING KAREN ZAPIEN

karen@underwatersystems.com



MAIN OFFICE

10603 Progress way

Cypress CA 90630

TEL: +1-714 - 229-9268

FAX: +1-714 - 229-9274

WWW.UNDERWATERSYSTEMS.COM



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